

REPORT
ON
L'ORIGINAL AND BYTOWN ROAD

LB 22925



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Joseph Pope

RETURN to an Address from the Legislative Assembly to His Excellency the Governor General, dated the 22nd instant, praying that His Excellency would be pleased to lay before them, "the Chart of the Road leading from L'Original into Bytown, referred to in the Report of the Board of Works, together with the Reports of Survey by Messrs. West & Keefer, and accompanying documents."

By Command.

Provincial Secretary's Office,
Montreal, 30th May, 1846.

D. DALY,
Secretary.

✓ REPORT ON L'ORIGINAL AND BYTOWN ROAD.

L'Original and Bytown Road,
Encampment near Caledonia Springs,
22nd August, 1845.

Sir,

I have the honor to inform the Board that I have completed the survey of this Road to within about three miles of L'Original, and have all things prepared to proceed with the specifications, estimates, &c.

As soon as I had finished the plans, estimate, &c. for the Bridge over the west Branch of the Rideau, on the Road from the Gatineau Ferry to Bytown, and transmitted them to the Board, I procured a guide, and proceeded from Bytown down to examine the route and obtain a general knowledge of the country through which it passes. I made a general reconnaissance of the whole on foot, and arrived in about five days at L'Original, where I expected to have hired my party, get provisions, &c. for my instrumental survey back to Bytown.

Having gone through the route, I found I must have a tent, cooking utensils, blankets, &c. for my party, as the few settlers on the route were generally residing off the road near the Ottawa, and much inconvenience and loss of time must result if I depended on boarding and sleeping with them, besides much discomfort in other respects. On enquiry at L'Original, I found that I could not there obtain pork, biscuit, or much else that I wanted, and that it would be necessary for me to return to Bytown to obtain a party, provisions, &c.,—this I did.

I found a good deal of difficulty and delay in hiring hands, as hay harvest had commenced, and all were busy at it.

Having completed my party and arrangements, I proceeded on my survey, commencing at the Court-house door in Bytown, and numbering and planting a good substantial mile post at the end of every mile.

At the post marking the end of the sixth mile and beginning of the seventh, I commenced to number the sections, considering these six miles would do for the present without any outlay; the seventh mile therefore, is, the first section, and begins at Green's Creek.

The soil from here to Hatville is, with one or two exceptions, blue clay intermixed with reddish, this being the constituent of the whole country from the Ottawa back, resting at a good depth generally, on a limestone formation. The Road is located on a table of this, standing at different points, at a height varying from twenty to eighty feet, or more, above the surface of the Ottawa River; and is in the greater part of the route, at the base of an ascent, the top of which is the table forming the general surface of the country back.

All the creeks and rivers coming from the interior cuts into this clay, and form deep ravines, and gulleys for their beds, making the bridging expensive, and requiring a good deal of care to locate the bridges, and the road in its descent and ascent to and from the bridges, in such a manner as to make the descent and ascent the most gentle possible. As the bridges are now located, the road comes straight down upon them on the one side, and straight up on the other; without any care to avoid the precipitancy on either side. I have had to alter this in almost every instance, and I think I will be able, without any very great expense, to make the Road at these points in such a manner as will reduce ascents and descents, which are now from 1 in 1, to from 1 in 2, to a grade that will not be more than from 1 in 12, to 1 in 16, as the ground will answer. The examinations for this purpose delayed me a good deal, but the subject is one of great importance in making a Road on either side of the Ottawa River.

Having arrived at Fox's Creek, in compliance with my instructions, I took a direct course for Hatville, to examine the route suggested in Mr. Walton's report. I continued the survey and exploration for a distance of six miles; this was through a dense forest mostly of pine, with a thick growth of underwood. Lumbering has been carried on all through here for thirty or more years, filling the woods with fallen timber, and of itself rendering it very expensive to open a road through it,—but this would be the least difficulty; the ground is nearly one succession of ridges, knolls, swamps and gulleys, and a much larger proportion of wet swamp than on the front. Having gone the distance I mention, I was convinced that the route was suggested without any knowledge of the ground, that it would be at least twice as expensive as the front, and very little show if any kind of

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shapely ground should be selected. On these and other accounts which will be mentioned in the more detailed report, I abandoned the route, knowing it would be only losing time, and creating useless expense to pursue the survey any further.

I resumed my survey on the front where I had stopped, and continued on to what is called Jessup's Falls, or New Inverness, on the Nation River, within about four miles of Hatville; to here the Road has been located, and partly opened; but from here for some distance it was neither located nor opened, so that I had nearly two miles of cutting to do through very thick woods.

Having arrived near Shannon Cottage, I called on Colonel Kearnes, who used me in the most kind and hospitable manner; and gave me a great deal of information about roads and bridges, which I received with all due deference.

At Hatville I made a thorough examination of the Nation River, and have fixed upon a site for the Bridge, one that I think will, in nearly all respects, be more suitable than the one used heretofore.

I have in only two or three instances of any note, deviated from the old location, and that where the road is shortened, and evidently bettered. I shall prepare a detailed report, with plans, estimate, &c., with the least possible delay.

I have the honor to be,
Sir,

Your most obedient humble servant,
JAS. WEST.

Thomas A. Begly, Esquire,
Secretary, Board of Works,
Montreal.

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ESTIMATE of the Work to be performed in the construction of the Road on the south side of the Ottawa River, from Bytown to L'Original.

For the first two miles I have made no Estimate, although the Bridge over the Rideau requires considerable repairs.

	£	s.	d.	£	s.	d.
Estimate Section No. 1, Mile 3rd.						
Whole length of Section 1 mile or 320 rods.						
This Section commences $\frac{3}{4}$ of a mile beyond Rideau River in clear land, soil sandy and gravelly.						
Clearing and removing stumps and logs from 20 rods, at 2s.	2	0	0			
Fascining 18 rods in length, at 3s. 6d.	3	3	0			
Covering with earth and gravel on an average 12 inches deep, 20 rods, at 6s. 6d.	6	10	0			
				11	13	0
Estimate Section No. 2, Mile 4th.						
Length of Section, 1 mile or 320 rods.						
Removing stone and forming road with water tables, 50 rods, at 7s. 6d.	18	15	0			
				18	15	0
Estimate Section No. 3, Mile 5th.						
This Section is partly opened, the remainder unopened passing through fields beyond Mr. Stephenson's.						
Removing logs, stumps, and stones, and forming road with water tables, near Mr. Stephenson's, 20 rods, at 3s. 6d.	3	10	0			
Forming Road with water tables, near east end of Section, 200 rods, at 4s.	40	0	0			
Culverts, small ones, 3 at 25s.	3	15	0			
				47	5	0
Estimate Section No. 4, Mile 6th.						
At the beginning of Section the line leaves the old road, and goes directly to the house at the turn to the Gloucester Springs, passing through wet pine swamp for 120 rods, a creek at beginning of Section.						
Chopping and clearing 65 feet wide for 120 rods, at 1s. 3d.	7	10	0			
Grubbing and clearing off 28 feet wide, 120 rods, at 3s. 6d.	21	0	0			
Cutting side drains and forming, 200 rods, at 4s.	40	0	0			
Two small Bridges, 6 feet waterway each, 100s.	10	0	0			
Cutting into side of hill and grading road on west side of Green's Creek and to the Creek, 50 rods, at 10s.	25	0	0			
Cribbing and filling up approach on west side	15	0	0			
Bridge over Green's Creek, 20 feet waterway, height of abutments from bottom of Creek 14 feet, the abutments to be made of Crib-work well filled in with rained earth (clay), the rest as in general specification for Bridges	30	0	0			
Culverts, small ones, 3 at 25s.	3	15	0			
Formation of approach to Bridge on east side, 10 rods, at 16s.	8	0	0			
				160	5	0
Carried forward				£237	8	0

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ESTIMATE of the Work to be performed, &c.—(Continued.)

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	£	s.	d.	£	s.	d.
<i>Brought forward</i>	237	8	0
Estimate Section No. 5, Mile 7th.						
This is No. 1 of the old Sections as marked on the ground, and I shall note the number of the old Section as I pass along with this estimate, marking it O.S.						
Commencing near end of Bridge over Green's Creek, excavation and formation of road as it winds up the hill 30 rods in length. The hill slopes about 3 to 1, and the base of the excavation being about 11 feet, will give with the double slope about 30 cubic yards to the rod in length, which at 3d. will be 7s. 6d. per rod for excavation and formation. The retaining wall will generally require to be from 4 to 4½ feet high, and, built as per general specification, will be worth 4s. 6d. per rod, and the parapet or guard wall will be worth 4s. per rod.						
Chopping and clearing off 54 feet wide, 154 rods, at 1s	7	14	0
Grubbing and taking out old logs, 28 feet wide, 154 rods, at 3s. 6d.	26	19	0
Excavation and formation up bank and at brow of hill, 30 rods, at 7s. 6d.	11	5	0
Retaining wall, 20 rods, at 4s. 6d.	4	10	0
Parapet or guard, 22 rods, at 4s.	4	8	0
Cutting side drains and forming road at beginning of Section, 84 rods, at 7s. 6d.	31	10	0
Cutting water tables and forming the remainder of the Section, 236 rods, at 4s.	47	4	0
Culverts, 1 large, 35s., and 4 small, 25s.	6	15	0
				140	5	0
Estimate Section No. 6, Mile 8th. O.S. No. 2.						
This Section is heavy timbered, pine and hemlock, and is in part very wet and springy; road opened in part about 12 feet wide, only a little grubbed in the clearing, Forbes'.						
Chopping and clearing to 66 feet wide, 255 rods, at 1s.	12	15	0
Grubbing and clearing 28 feet wide, 255 rods, at 3s.	38	5	0
Cutting side drains and forming road at beginning of Section, 100 rods, at 4s.	20	0	0
Clearing and cutting lateral drain through woods 3 feet deep, 2 feet wide at bottom, 15 rods, at 2s. 6d.	1	17	6
Forming with water tables near Forbes' clearing, 24 rods, at 2s. 6d.	3	0	0
Forming with deep side drains at east end of Section, 68 rods, at 5s.	17	0	0
Fascining, 14 rods, at 3s.	2	2	0
A Bridge in Forbes' clearing over Gully and Creek, 10 feet waterway, 8 feet high, 100s.	5	0	0
A small Bridge near old Goequies clearing, 6 feet waterway, 6 feet high, 80s.	4	0	0
Culverts, (small) 4 at 30s.	6	0	0
				109	19	6
Estimate Section No. 7, Mile 9th. O.S. No. 3.						
This whole Section is through woods, wet land, pine, hemlock, cedar, ash, alder, &c. the road is opened only, heavy clearing and grubbing.						
Chopping and clearing 56 feet wide, 320 rods, at 1s. 3d.	20	0	0
Grubbing and clearing off old logs, &c., 28 feet wide, 320 rods, at 3s. 6d.	56	0	0
Cutting side drains and forming road for 280 rods, at 5s.	70	0	0
Fascining, 10 rods, at 3s.	1	10	0
Culverts, 3 at 30s.	4	10	0
Clearing, grubbing and cutting lateral drain, 2 feet bottom, 3 feet deep, 26 rods, at 3s.	3	18	0
Forming remainder of Section with water tables, 40 rods, at 2s. 6d.	5	0	0
A Bridge 8 feet waterway, abutment to be 6 feet high at face, with approaches 40 feet long, to be filled with earth	10	0	0
Small Bridges, two, 5 feet waterway each, 50s.	5	0	0
Repairing two small Bridges	3	0	0
A Bridge near east end of Section, 8 feet waterway, and abutments 8 feet high at face.	10	0	0
				188	18	0
Estimate Section No. 8, Mile 10th. O.S. No. 4.						
The whole section is through woods, wet land, pine, hemlock, cedar, ash, alder, &c. timber; the road has been opened in part, but nearly all grown over with brush, heavy clearing and grubbing.						
Chopping and clearing 56 feet wide, 320 rods, at 1s. 3d.	20	0	0
Grubbing and clearing out logs, 28 feet wide, 320 rods, at 3s. 6d.	56	0	0
Cutting side drains and forming road at beginning of Section, 112 rods, at 5s.	28	0	0
Culverts, three, at 30s.	4	10	0
Clearing and cutting lateral drain 2 feet bottom, 3 feet deep, 20 rods, at 3s.	3	0	0
Forming road down side of Ravine at Bilberry Creek, retaining wall and parapet	4	0	0
Excavation and forming, 10 rods, at 7s. 6d.	3	15	0
Fascining, 10 rods, at 3s.	1	10	0
A Bridge here over Bilberry Creek of 15 feet waterway, with abutments 10 feet high from bottom, well made and extended back 40 feet each side and filled, forming approaches...	15	0	0
Excavating the hill and forming the road across flat on east side, 410 cubic yds. at 5d.	8	10	10
Cutting side drains and forming road on east end of Section, 196 rods, at 5s.	49	0	0
Culverts, four, at 30s.	6	0	0
Lateral drain, clearing, grubbing and cutting, 30 rods, at 3s.	4	10	0
				203	15	10
<i>Carried over</i>	£880	6	4

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ESTIMATE of the Work to be performed, &c.—(Continued.)

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	£	s.	d.	£	s.	d.
<i>Brought over</i>	880	6	4
Estimate Section No. 9, Mile 11th. O.S. No. 5.						
This Section is all through woods, part of the road has been cleared off, and partly formed by a shallow ditch on south side. The timber on it is Pine, Hemlock, Ash, &c.; the part opened is about 16 feet wide on an average.						
Chopping and clearing off 50 feet wide, 320 rods, at 10d....	13	6	8			
Grubbing and clearing out 28 feet wide, 320 rods, at 2s. 6d	40	0	0			
Cutting side drains and forming road at beginning of Section, 92 rods, at 3s... ..	13	16	0			
From end of last 92 rods to foot of rocky hill, being 100 rods, digging side drains and forming road, 100 rods, at 2s. 6d.	12	10	0			
At top of hill to be cleared of stone and formed with water tables, 24 rods, at 5s.	6	0	0			
Forming road down side of rocky hill, building retaining wall and parapet of dry stone-work, 18 rods, at 16s.	14	8	0			
Cutting side drains and forming road at east end of Section, and to the end, 110 rods, at 3s.	16	10	0			
Culverts, three, at 30s.	4	10	0			
Lateral drain clearing, grubbing, and digging, 2 feet bottom, 2½ deep, 20 rods, at 2s. 6d.	2	10	0			
				123	10	8
Estimate Section No. 10, Mile 12th. O.S. No. 6.						
One half of this Section is through LaFlamme's clearing, having woods only on one side; the remainder is through woods.						
Chopping and clearing off 46 feet wide, 160 rods, at 10d.	6	13	4			
Chopping and clearing off 33 feet wide, 100 rods, at 8d.	3	6	8			
Grubbing and clearing out 28 feet wide for 320 rods, at 2s. 3d... ..	36	0	0			
Forming with side drains at beginning of Section, 80 rods, at 3s. 6d.	14	0	0			
Forming with water tables the remaining 240 rods, at 2s. 6d.	30	0	0			
Culverts, three, at 30s.	4	10	0			
Lateral drain clearing and digging, 20 rods, at 2s.	2	0	0			
Bridge at LaFlamme's Creek and Ravine, 20 feet waterway, faces of abutments 25 feet high, Crib-work to be filled in with stone	30	0	0			
One small Bridge 10 feet waterway, 8 feet high	7	10	0			
				134	0	0
Estimate Section No. 11, Mile 13th. O.S. No. 7.						
The whole of this Section is through woods, and of the heaviest kind, being mostly Pine and Hemlock: heavy grubbing and clearing.						
Chopping and clearing 50 feet wide, 320 rods, at 1s. 3d.	20	0	0			
Grubbing and clearing off old logs in heavy pine lands, the whole width of 28 feet, 320 rods, at 4s.	64	0	0			
Cutting side ditches and forming road at beginning of Section, for 106 rods, at 5s.	26	10	0			
Cutting down hog's back or ridge on west side of Leonard's Creek, an average depth of 3 feet, 13 rods, at 3s. 6d.	2	5	6			
Cutting down brow and filling in hollow	1	0	0			
Forming road up face of hill on east side of Leonard's Creek, rise being about 65 feet, 50 feet of which will be overcome in the first 26 rods, and the rest by a gradual winding up the hill... ..	20	0	0			
Parapet or guard, 20 rods, at 4s.	4	0	0			
Forming the next piece with heavy side drains, 144 rods at 5s... ..	36	0	0			
Culverts, four, at 30s.	6	0	0			
Lateral drain, 30 rods, at 2s. 6d.	3	15	0			
Forming at east end of Section with water tables, 25 rods, at 2s. 6d.	3	2	6			
				186	13	0
On Leonard's Creek there is a good Bridge built on framed bents and string pieces, the covering of flatted Pine, it is 100 feet in length, and only 10 or 12 feet high. There is a small Bridge over a gully at east end of Section in Captain Petrie's clearing; it is good.						
Estimate Section No. 12, Mile 14th. O.S. No. 8.						
The whole of this Section is through woods, but they are generally hard wood timber, in which the chopping and grubbing are not very heavy. The road has been opened on an average 14 feet wide, but will have to be opened anew to straighten it.						
Chopping and clearing 52 feet wide, 320 rods, at 10d... ..	13	6	8			
Grubbing and clearing out old logs, 20 feet wide in part and 28 feet in part cut anew, 320 rods, at 2s. 4d.	37	6	8			
Clearing part of the distance of stone, and forming the whole length of Section with side drains, 320 rods. at 4s. 6d.	72	0	0			
Culverts, four, at 25s.	5	0	0			
Lateral drain, 28 rods, at 2s. 6d.	3	10	0			
				131	3	4
Estimate Section No. 13, Mile 15th. O.S. No. 9.						
Whole length of Section through woods, timber, mixed hardwood, Pine, Hemlock,—and Road opened about 14 feet wide.						
Chopping and clearing off 52 feet wide, 320 rods, at 10d... ..	13	6	8			
Grubbing and removing old logs 28 feet wide, 320 rods, at 2s. 6d.	40	0	0			
Forming road and clearing off some stony places through whole Section, 320 rods, at 3s.	48	0	0			
Culverts, five, at 30s.	7	10	0			
				108	16	8
<i>Carried forward</i>	£1564	10	0

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(V. V.)

ESTIMATE of the Work to be performed, &c.—(Continued.)

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(V. V.)

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30th May.

	£	s.	d.	£	s.	d.
<i>Brought forward</i>	1564	10	0
Estimate Section No. 14, Mile 16th. O.S. No. 10.						
Part only of this Section has woods upon it, the remainder being through clearing; the woods are mixed timber, hardwood, Pine and Hemlock.						
Chopping and clearing off 52 feet wide, 238 rods, at 10d.	9	18	4			
Grubbing and removing old logs 28 feet wide, 238 rods, at 2s. 4d.	27	15	4			
At beginning of Section, diteling and forming 88 rods in length, at 4s.	17	12	0			
Culverts, three, at 30s.	4	10	0			
Levelling ground, forming road with water tables on high land, 30 rods, at 2s. 6d.	3	15	0			
Forming road sloping down side of bank to level ground, 50 rods, at 6s. 3d.	15	12	6			
Forming road at east end of Section, 167 rods, of which 30 rods are to be at 3s.	4	10	0			
The remaining 137 rods at 6s. 3d.	42	16	3			
Estimate Section No. 15, Mile 17th. O.S. No. 11.						
The whole of this Section is in cleared land, soil sandy, good for road.						
Clearing off some brush, and grubbing a few stumps	2	0	0			
Forming road with water tables, 320 rods, at 2s. 6d.	40	0	0			
One small bridge 5 feet waterway, 6 feet high	4	0	0			
Culverts, three, at 30s.	4	10	0			
Lateral drain, 40 rods, at 2s. 6d.	5	0	0			
				55	10	0
Estimate Section No. 16, Mile 18th. O.S. No. 12.						
This Section at beginning in clear land, the remainder of the Section in woods, heavy clearing, Pine, Hemlock, Birch, Ash, &c., hilly uneven land.						
Chopping and clearing off 60 feet wide, 220 rods, at 1s.	11	0	0			
Grubbing and removing old logs, 28 feet wide, 220, at 2s. 6d.	27	10	0			
Forming road to brow of ravine with water tables, 30 rods, at 2s. 6d.	3	15	0			
Forming road down slope of ravine or brow of hill, 10 rods, at 6s. 3d.	3	2	6			
Levelling sand knoll and forming road from toe of hill, 30 rods, at 6s. 3d.	9	7	6			
Removing logs of old crossway, fascining, forming road, &c., 49 rods						
Making and laying fascines on 21 rods, at 3s.	3	3	0			
Drain on South side 2½ feet bottom, 3½ feet deep, 49 rods, at 4s.	9	16	0			
Drain on North side 2½ feet bottom, 3 feet deep, 24 rods, at 3s.	3	12	0			
Continuation of drain on North side over the higher land into the Creek, 1½ feet bottom, 1½ feet deep, 25 rods, at 1s.	1	5	0			
Forming road with heavy side drains from Creek eastward to foot of another sand hill, 151 rods, at 5s.	37	15	0			
Making and laying fascines in part of the above distance, low wet land, 41 rods, at 3s.	6	3	0			
Excavating and forming road up side of sand hill, 20 rods, at 10s.	10	0	0			
Levelling and forming road at east end of Section, 57 rods, at 3s.	8	11	0			
One small Bridge 10 feet waterway, 8 feet high	6	0	0			
Culverts, five, at 30s.	7	10	0			
				148	10	0
Estimate Section No. 17, Mile 19th. O.S. No. 13.						
Part of this Section through woods, timber, Pine, Hemlock, Birch, Ash, &c.; some part of it very wet. Beckwith's Creek and another large Creek passes through it, heavy clearing and grubbing through all the wood land.						
Chopping and clearing off 52 feet wide, 260 rods, at 10d.	10	16	8			
Grubbing and clearing out old logs, 28 feet wide, 320 rods, at 2s. 6d.	40	0	0			
Formation of road from beginning of Section to first large Creek, 86 rods, at 2s. 6d.	10	15	0			
Culverts, two, at 30s.	3	0	0			
Lateral drain, clearing and digging, 60 rods, at 2s.	2	0	0			
Here a Ravine 50 feet deep, a large Creek in the bottom of it with a Bridge on bents, the covering 134 feet long, is all very much decayed except part of the covering.						
A new Bridge required, should have 20 feet waterway, and cribbed abutments of at least 20 feet height on the face from bottom of water, and the approaches formed by cutting down the hill on the side and filling in the abutments, for this whole work						
Formation of road down side of ravine on West side, and up on East side, 24 rods in all, at 7s. 6d.	60	0	0			
Retaining wall for both sides, 20 rods, at 4s. 6d.	9	0	0			
Parapet or guard wall for both sides, 24 rods, at 4s.	4	10	0			
Formation of road with deep side drains from this Creek to Beckwith's Creek, 50 rods, at 4s.	4	16	0			
Culverts, one, at 30s.	10	0	0			
Beckwith's Creek here in a Ravine 70 feet deep, with an old bridge over it of 130 feet in length, will require a new bridge of 20 feet waterway, cribbed abutments 20 feet high on face from bottom of Creek, the hill side to be cut down to form the approaches	1	10	0			
Formation of road down and up side of Ravine:—						
Excavation and forming on West side, 20 rods, at 7s. 6d.	60	0	0			
Retaining wall	7	10	0			
Parapet or guard, 20 rods, at 4s.	3	7	6			
Amount for East side of same, including the excavation of the brow	4	0	0			
Extra grubbing, and forming the road from Beckwith's Creek to end of Section, 127 rods, at 5s.	14	17	6			
	31	15	0			
				277	17	8
<i>Carried over</i>	£2046	7	8

Appendix
(V. V.)

ESTIMATE of the Work to be performed, &c.—(Continued.)

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(V. V.)

30th May.

30th May.

	£	s.	d.	£	s.	d.
<i>Brought over</i>	2046	7	8
Estimate Section No. 18, Mile 20th. O.S. No. 14.						
The greater part of this Section passes through woods, timber, Pine, Hemlock, Ash, Spruce, &c., heavy clearing and grubbing; through part of the Section the road is partly formed by a shallow drain on one side, the low wet spots are crosswayed in a slight manner.						
Chopping and clearing off 50 feet wide, 270 rods, at 10d.	11	5	0			
Grubbing and clearing out old logs to 28 feet wide through the whole Section, 320 rods, at 2s. 6d.	40	0	0			
Formation of road with side drains, including the laying fascines on 40 rods, 32 rods, at 4s. Culverts, five, at 30s.	64	0	0			
Laterai drain, 40 rods, at 2s. 6d.	7	10	0			
	5	0	0			
				127	15	0
Estimate Section No. 19, Mile 21st. O.S. No. 15.						
Two-thirds of this Section is through woods, but they are rather lighter than those last past through; the road is opened from 16 to 23 feet wide and is very level; soil, clay, near the bank of the Ottawa River.						
Chopping and clearing out the road to its full width—being about 48 feet more, 220 rods, at 10d.	9	3	4			
Grubbing and clearing off to 28 feet wide, 220 rods, at 2s.	22	0	0			
Forming road with side drains, 320 rods, at 2s.	48	0	0			
Culverts, four, at 30s.	6	0	0			
Laterai drain into Ottawa, 40 rods, at 2s. 6d.	5	0	0			
				90	3	4
There are two Creeks crossing this Section near the beginning of it, over which there are good bridges.						
Estimate Section No. 20, Mile 22d. O.S. No. 16.						
Only about half of this Section has woods upon it, they are Pine, Hemlock, Ash, &c.						
Chopping and clearing off 50 feet wide, 130 rods, at 10d.	6	13	4			
Grubbing and clearing out to 28 feet wide, 160 rods, at 2s. 6d.	20	0	0			
Forming with side drains, 320 rods, at 2s.	43	0	0			
One Bridge 10 feet waterway, face of abutment 12 feet high	10	0	0			
Three large Culverts at 50s.	7	10	0			
Six small Culverts at 30s.	9	0	0			
Laterai drain, 40 rods, at 2s. 6d.	5	0	0			
Way's bridge over Way's Creek is 155 feet long, on framed bents, 16 feet high at centre; this will require to be rebuilt	55	0	0			
				161	3	4
Estimate Section No. 21, Mile 23d. O.S. No. 17.						
The road through the greater part of this Section has woods upon it on one or both sides, they are pine, hemlock, ash, cedar, &c., heavy clearing.						
This Section is partly in James McCall's clearing.						
Chopping and clearing off 50 feet wider than the present opening, 300 rods, at 1s.	15	0	0			
Grubbing and clearing off stone and stumps, 320 rods, at 2s. 6d.	40	0	0			
Forming road with side-drains, 320 rods, at 2s. 6d.	56	0	0			
Three large culverts, three at 50s.	7	10	0			
Three small culverts, three at 30s.	4	10	0			
				123	0	0
Estimate Section No. 22, Mile 24th. O.S. No. 18.						
Of this Section 230 rods goes through woods, which are very heavy, pine and hemlock; soil sand and sandy loam.						
Chopping and clearing off 50 feet wide, 230 rods, at 1s.	11	10	0			
Grubbing and clearing out stones, logs, stumps, &c., 320 rods, at 2s.	48	0	0			
Forming road with side drains, 320 rods, at 2s. 6d.	40	0	0			
Three culverts, at 30s.	4	10	0			
				104	0	0
Estimate Section No. 23, Mile 25th. O.S. No. 19.						
This Section is all through woods, mostly heavy pine and hemlock timber; heavy chopping and grubbing; the soil is in some parts clay, in other sand, some low wet places with poor crossways in them. Fox's Creek crosses it at the east end.						
Chopping and clearing off 52 feet wide, 320 rods, at 1s.	16	0	0			
Grubbing and clearing to 28 feet wide, 320 rods, at 2s.	48	0	0			
Forming road with heavy side drains, 320 rods, at 2s.	48	0	0			
Cutting down bank at east branch of Fox's Creek and forming road on it	10	0	0			
A creek bridge 10 feet waterway, and 10 feet high	10	0	0			
Bridge over Fox's Creek 15 feet waterway, 12 feet high	11	0	0			
Bridge over east branch Fox's Creek 12 feet waterway, 9 feet high	10	0	0			
Laterai drain, 30 rods, at 2s. 6d., £3 15; and culverts, four, at 30s.	9	15	0			
				162	15	0
If there is not money enough these bridges will do by being repaired.						
<i>Carried forward</i> ... ..	...	...	...	£2815	4	4

Appendix
(V. V.)

ESTIMATE of the Work to be performed, &c.—(Continued.)

Appendix
(V. V.)

30th May.

30th May.

	£	s.	d.	£	s.	d.
<i>Brought forward</i> ... .. .	...	...	...	2815	4	4
Estimate Section No. 24, Mile 26th. O.S. No. 20.						
The beginning of this Section is in woods, the remainder in clearing in what is called the New England Settlement; the part through clearing is fully open.						
Chopping and clearing off at beginning of Section the full width of 66 feet, 42 rods, at 1s. 3d.	2	12	6			
Grubbing, clearing off rocks, stones, old logs, &c., levelling knolls, 42 rods at 6s. 3d.	13	2	6			
Clearing stone off the knoll beyond the woods and levelling it, 10 rods at 7s. 6d.	3	15	0			
Forming road with side drains at beginning of Section, 82 rods, at 4s.	16	3	0			
Bridge over Woodley's Creek, 10 feet waterway, 8 feet high	5	0	0			
Forming road over flat near bridge, 10 rods, at 10s.	5	0	0			
Removing stones and forming road with water tables on last part of Section, 260 rods, at 2s. 6d.	30	0	0			
				75	18	0
Estimate Section No. 25, Mile 27th. O.S. No. 21.						
This Section goes only part way in woods, which are to be chopped and cleared off to the full width of 66 feet.						
Chopping and clearing off 186 rods, at 10d.	7	15	0			
Grubbing and clearing off old logs, 186 rods, at 2s. 6d.	23	5	0			
Forming road by water tables, 320 rods, at 2s. 6d.	40	0	0			
Culverts, three at 30s.	4	10	0			
				75	10	0
Estimate Section No. 26, Mile 28th. O.S. No. 22.						
This Section is part in clearing and part in woods; is situated back of Fox's Point; soil is clay, and clay and sand mixed; timber, heavy pine and hemlock; part goes through low alder swamp.						
Chopping and clearing off, 250 rods, at 1s.	12	10	0			
Grubbing and clearing off stumps, &c., 320 rods, at 2s.	32	0	0			
Making and laying Fascines in 40 rods, at 3s.	6	0	0			
Forming with side drains, 320 rods, at 2s. 6d.	40	0	0			
Culverts, large ones, two, at 50s.	5	0	0			
Culverts, small ones, two, at 30s.	3	0	0			
Lateral drain, 20 rods, at 2s. 6d.	3	15	0			
				102	5	0
Estimate Section No. 27, Mile 29th. O.S. No. 23.						
Part of this Section is cleared and part in woods, heavy pine land from beginning to end.						
Chopping and clearing off to full width, 240 rods, at 1s.	12	0	0			
Grubbing and clearing off old logs, 320 rods, at 3s.	48	0	0			
Excavating and forming road down and up Ravine at Anderson's Creek	33	0	0			
Culverts, three, at 30s.	4	10	0			
Forming road with deep side drains for 300 rods, at 3s.	45	0	0			
Lateral drain, 20 rods, at 2s. 6d.	2	10	0			
				145	0	0
There is a bridge over Anderson's Creek that is in pretty good condition, covering 120 long; it may want some repairs.						
Estimate Section No. 28, Mile 30th. O.S. No. 24.						
This Section begins at Gifford's and is nearly all through woods, which are heavy pine timber, mixed with hemlock, balsam, ash, &c.; it is likewise low and wet land.						
Chopping and clearing off, 290 rods, at 1s.	14	10	0			
Grubbing and clearing off old logs, &c., 320 rods, at 3s. 6d.	56	0	0			
Forming road with deep side drains, 320 rods, at 3s. 6d.	56	0	0			
Fascines on 40 rods, at 3s.	6	0	0			
Lateral drain, 30 rods, at 2s. 6d.	3	15	0			
Two small bridges 3 feet waterway each and 6 feet high, 80 feet	8	0	0			
A bridge here, 40 feet long, over a gully and creek, will do with some repairs	6	0	0			
Culverts, six, at 30s.	9	0	0			
				159	5	0
Estimate Section No. 29, Mile 31st. O.S. No. 25.						
This Section begins at the end of the bridge over creek in a deep ravine, and is nearly all through woods—pine, hemlock, cedar, ash, &c., low wet land; east end of Section in Roe's clearing, and near line between Clarence and Plantagenet.						
Chopping and clearing off 52 feet wide, 300 rods, at 1s.	15	0	0			
Grubbing and clearing off old logs to 28 feet wide, 300 rods, at 2s. 6d.	37	10	0			
Forming road up side of ravine from bridge to top of bank, excavation, parapet, and retaining wall for all, 12 rods, at 14s.	8	8	0			
Forming road with heavy side drains, 320 rods, at 4s. 6d.	72	0	0			
A deep ravine and bridge 100 feet long near east end of Section.						
Forming road down the west side and up the east side of ravine, in all	26	0	0			
New bridge 15 feet waterway, face of abutments 20 feet high	30	0	0			
Culverts, large ones, three, at 50s.	7	10	0			
Culverts, small ones, four, at 30s.	6	0	0			
Lateral drain, 60 rods, at 2s. 6d.	7	10	0			
				209	0	0
<i>Carried over</i> ... .. .	...	...	...	£3582	2	4

Appendix
(V. V.)

ESTIMATE of the Work to be performed, &c.—(Continued.)

Appendix
(V. V.)

30th May.

30th May.

		£	s.	d.	£	s.	d.
<i>Brought over</i> ... ..		...	...	...	3582	2	4
Estimate Section No. 30, Mile 32nd. O.S. No. 26.							
Nearly the whole of this Section in woods, pine, ash, hemlock and spruce, &c., nearly all very wet land.							
Chopping and clearing off 50 feet wide, 300 rods, at 1s.	...	15	0	0			
Grubbing and clearing out 22 feet wide, 300 rods, at 2s. 6d.	...	37	10	0			
At 90 rods from beginning of Section, a bridge of 68 feet in length in a ravine,—this will do with some repairs, say	...	6	0	0			
Cutting down brow of hill and forming road down and up sides of Ravine	...	20	0	0			
Forming road with heavy side drains all through Section, 320 rods, at 4s.	...	64	0	0			
A bridge beyond Alexander Cunningham's of 12 feet waterway and 12 feet high	...	12	10	0			
Culverts, large ones, three, at 50s.	...	7	10	0			
Culverts, small ones, four, at 30s.	...	6	0	0			
Lateral drain, 60 rods, at 2s. 6d.	...	7	10	0			
					176	0	0
Estimate Section No. 31, Mile 33rd. O.S. No. 27.							
Part of this Section is through clearing, and part in woods which are heavy timbered,—pine, hemlock, ash, balsam, and spruce.							
Chopping and clearing off 50 feet wide, 200 rods, at 1s.	...	10	0	0			
Grubbing and clearing out to 28 feet wide, 200 rods, at 3s.	...	30	0	0			
Cutting down hills, and forming road with heavy side drains, 320 rods, at 4s.	...	64	0	0			
Near M'Geough's a bridge 30 feet long, repairs to it.	...	5	0	0			
Another bridge beyond M'Geough's, 40 feet long, repairs.	...	5	0	0			
Culverts, large ones, four, at 50s.	...	10	0	0			
Culverts, small ones, four, at 30s.	...	6	0	0			
Lateral drain, 50 rods, at 2s. 6d.	...	6	5	0			
					136	5	0
Estimate Section No. 32, Mile 34th. O.S. No. 28.							
Part of this Section is in clearing, and part in woods; not very heavy clearing, but heavy pine grubbing.							
Chopping and clearing off 50 feet wide, 156 rods, at 1s.	...	7	16	0			
Grubbing and clearing out logs to 28 feet, 320 rods, at 2s. 6d.	...	40	0	0			
Forming road with deep side drains, and levelling hills on whole, 320 rods, at 3s.	...	48	0	0			
Two small bridges 10 feet waterway, 10 feet high, 100s.	...	10	0	0			
Culverts, large ones, two, at 50s.	...	5	0	0			
Culverts, small ones, four, at 30s.	...	6	0	0			
Lateral drains, 70 rods, at 2s. 6d.	...	8	15	0			
					125	11	0
Estimate Section No. 33, Mile 35th. O.S. No. 29.							
This whole Section is through woods, but not very heavy to clear or grub.							
Chopping and clearing off 52 feet wide, 320 rods, at 10d.	...	13	6	8			
Grubbing and clearing out old logs, 28 feet wide, 320 rods, at 2s.	...	32	0	0			
Forming road with heavy side drains, and levelling banks of gullies, &c., 320 rods, at 3s.	...	48	0	0			
Culverts, large ones, two, at 50s.	...	5	0	0			
Culverts, small ones, four, at 30s.	...	6	0	0			
Lateral drain, 60 rods, at 2s. 6d.	...	7	10	0			
					111	16	8
Estimate Section No. 34, Mile 36th. O.S. No. 30.							
Whole Section through woods, rather light clearing.							
Chopping and clearing off 52 feet wide, 320 rods, at 10d.	...	13	6	8			
Grubbing and clearing out 28 feet wide, 320 rods, at 2s.	...	32	0	0			
Forming road with side drains, 320 rods, at 3s.	...	48	0	0			
Culverts, large ones, two, at 50s.	...	5	0	0			
Culverts, small ones, three, at 30s.	...	4	10	0			
Lateral drain, 50 rods, at 2s. 6d.	...	6	5	0			
					109	1	8
Estimate Section No. 35, Mile 37th. O.S. No. 31.							
This Section is opposite Jessup's Falls, and extends above them, and has to be entirely cleared and grubbed, being all in woods.							
Chopping and clearing off 66 feet wide, 320 rods, at 1s. 3d.	...	20	0	0			
Grubbing and removing old trees, &c., 28 feet wide, 320 rods, at 2s. 6d.	...	40	0	0			
Near beginning of Section a deep gully and creek will require a bridge of 20 feet waterway and 14 feet high, the abutments well filled in from the cutting down of the bank of the gully	...	25	0	0			
Cutting down brows of gully.	...	5	0	0			
Forming road with heavy side drains, 320 rods, at 3s.	...	48	0	0			
Culverts, large ones, two, at 50s.	...	5	0	0			
Culverts, small ones, four, at 30s.	...	6	0	0			
Fascining, 30 rods, at 3s.	...	4	10	0			
Lateral drain, 60 rods, at 2s. 6d.	...	7	10	0			
					£161	0	0
<i>Carried forward</i>					4240	16	8

Appendix
(V. V.)

ESTIMATE of the Work to be performed, &c.—(Continued.)

Appendix
(V. V.)

30th May.

30th May.

	£	s.	d.	£	s.	d.
<i>Brought forward</i>	161	0	0	4240	16	8
Near east end of Section a very wide and deep ravine occurs, with a Creek called John Baptiste's Creek in it; on each side of Creek a flat of 60 feet width extends to the bold bank; Bridge for this Creek, 20 feet waterway, 12 feet high	35	0	0			
Formation of road across flat on each side of Creek, roadway 5 feet above flat, 120 feet long	14	0	0			
A small bridge over another lesser gully just at end of Section, 5 feet waterway and 6 feet high	4	0	0			
				214	0	0
Estimate Section No. 36, Mile 38th. O.S. No. 32.						
This whole Section in woods, but not heavy clearing.						
Chopping and clearing 52 feet wide, 320 rods, at 10d.	13	6	8			
Grubbing and removing old logs to 28 feet wide, 320 rods, at 2s.	32	0	0			
Forming road with side drains, 320 rods, at 3s.	48	0	0			
Culverts, small ones, four, at 30s.	6	0	0			
Lateral drain, 40 rods, at 2s. 6d.	5	0	0			
				104	6	8
Estimate Section No. 37, Mile 39th. O.S. No. 33.						
Nearly the whole Section in woods; opposite Shannon Cottage, the residence of Colonel Kearnes, the woods not very heavy to clear or grub.						
Chopping and clearing off 52 feet wide, 280 rods, at 10d.	11	13	4			
Grubbing, removing old logs, &c., 300 rods, at 2s.	30	0	0			
Forming road with side drains, 320 rods, at 2s. 6d.	40	0	0			
A bridge 10 feet waterway, 10 feet high	8	0	0			
Raising road over flat near bridge, 6 rods, at 20s.	6	0	0			
Culverts, small ones, four, at 30s.	6	0	0			
Lateral drain, 40 rods, at 2s. 6d.	5	0	0			
				106	13	4
Estimate Section No. 38, Mile 40th. O.S. No. 34.						
The greater part of this Section in woods, not heavy clearing.						
Chopping and clearing off 52 feet wide, 250 rods, at 10d.	10	8	4			
Grubbing, clearing old logs, &c., 250 rods, at 2s.	25	0	0			
Forming road with side drains and raising it in parts, 320 rods, at 2s. 6d.	40	0	0			
A Bridge 15 feet waterway, 10 feet high, with approaches across the flats near bridge...	35	0	0			
Two small bridges, 10 feet waterway each, and 10 feet high each, 120s.	12	0	0			
Culverts, large ones, three, at 50s.	7	10	0			
Culverts, small ones, five, at 30s.	6	5	0			
Lateral drain, 70 rods, at 2s. 6d.	8	15	0			
				144	18	4
Estimate Section No. 39, Mile 41st. O.S. No. 35.						
This Section embraces the village of Hattville, and then passing the Nation River at the place where the bridge is to cross, the road takes a direct course to the sand hill called Pocquette's Hill.						
Chopping and clearing 66 feet wide, 180 rods, at 10d.	6	10	0			
Grubbing and clearing out old logs, 28 feet wide, 180 rods, at 2s.	18	0	0			
Forming road with side drains and levelling hills, 300 rods, at 3s.	45	0	0			
Forming road up side of Pocquette's Hill, 30 rods, at 10s.	15	0	0			
Bridge over the River Petite Nation at Hattville, 356 feet long, 20 feet roadway, 22 feet from out to out on trusses-framed—average height of truss 15 feet, dry stone abutments at each end	£375	15	0			
The same on pins of Crib-work, filled with stone, as in the sketch herewith	412	10	0			
Culverts, large ones, three, at 50s. each	7	10	0			
Culverts, small ones, four, at 30s.	6	0	0			
Lateral drain, 50 rods, at 2s. 6d.	6	5	0			
				516	15	0
Estimate Section No. 40, Mile 42nd. O.S. No. 36.						
Nearly all this Section in woods, but not heavy clearing; soil, sand and sandy loam.						
Chopping and clearing off 52 feet wide, 300 rods, at 10d.	12	10	0			
Grubbing and clearing out old logs, 300 rods, at 2s.	30	0	0			
Forming road with side drains, 320 rods, at 2s.	32	0	0			
Culverts, small ones, four, at 30s.	6	0	0			
Lateral drain, 50 rods, at 2s. 6d.	6	5	0			
				86	15	0
Estimate Section No. 41, Mile 43rd. O.S. No. 37.						
All this Section in woods, not very heavy clearing.						
Chopping and clearing off 52 feet wide, 320 rods, at 10d.	13	6	8			
Grubbing and clearing off old logs, 320 rods, at 2s.	32	0	0			
Forming road with side drains, levelling hills and knolls, 320 rods, at 2s.	32	0	0			
Making and laying fascines on 50 rods, at 3s.	7	10	0			
A small bridge 6 feet waterway 6 feet high	4	0	0			
Culverts, small ones, four, at 30s.	6	0	0			
				94	16	8
<i>Carried over</i>				£5509	1	8

Appendix
(V. V.)

ESTIMATE of the Work to be performed, &c.—(Continued.)

Appendix
(V. V.)

30th May.

30th May.

	£	s.	d.	£	s.	s.
<i>Brought over</i> ... ..	...	...	...	5509	1	8
Estimate Section No. 42, Mile 44th. O.S. No. 38.						
Part of this Section in Mr. Y. Lyttle's clearing, the remainder through woods.						
Chopping and clearing off 52 feet wide, 225 rods, at 10d....	9	7	6			
Grubbing and clearing out old logs, 300 rods, at 2s. ...	30	0	0			
Forming road and levelling hills, &c., 320 rods, at 2s. ...	32	0	0			
A small bridge 6 feet waterway 6 feet high ...	4	0	0			
Culverts, small ones, three, at 30s. ...	4	10	0			
				79	17	6
Estimate Section No. 43, Mile 45th. O.S. No. 39.						
This whole Section in woods, but generally not heavy clearing.						
Chopping and clearing 52 feet wide, 320 rods, at 10d. ...	13	6	8			
Grubbing, clearing out old logs, &c., 320 rods at 2s. 6d. ..	40	0	0			
Making and laying fascines on 56 rods, at 3s. ...	8	8	0			
Levelling hills and knolls, and forming road with side drains, 320 rods, at 2s. ...	32	0	0			
Culverts, small ones, four at 30s. ...	6	0	0			
Lateral drain, 50 rods, at 2s. 6d. ...	6	5	0			
				105	19	8
Estimate Section No. 44, Mile 46th. O.S. No. 40.						
All this section in woods, road to be carried straight here, not on old road						
Chopping and clearing out 66 feet wide, 320 rods, at 1s. ...	16	0	0			
Grubbing and clearing off old logs 28 feet wide, 320 rods, at 2s. 6d. ...	40	0	0			
Forming road with heavy side drains, 320 rods, at 3s. ...	48	0	0			
Bridge six feet waterway, six feet high... ..	4	0	0			
Culvert, large, one at 50s. ...	2	10	0			
Culverts, small ones, three, at 30s ...	4	10	0			
Making and laying fascines, forty, at 3s. ...	6	0	0			
Lateral drain, 40 rods, at 2s. 6d. ...	5	0	0			
				126	0	0
Estimate Section No. 45, Mile 47th. O.S. No. 41.						
The greater part of this Section is in clearing Holmes' and others.						
Chopping and clearing off 52 feet wide, 98 rods, at 10d. ...	4	1	8			
Grubbing and clearing out old logs, &c., 98 rods, at 2s. 6d. ...	12	5	0			
Levelling hills and forming road for 140 rods, at 4s. ...	28	0	0			
Culverts, large ones, three, at 50s., and two small ones, at 30s. ...	10	10	0			
Lateral drains, 60 rods, at 2s. 6d. ...	7	10	0			
				62	6	8
Estimate Section No. 46, Mile 48th. O.S. No. 42.						
This Section is in the large swamp, through which the road is pretty well opened, and requires opening and grubbing only at the beginning. The large side drain on the north side is partly filled, and a large lateral drain is required near east end.						
Chopping and clearing off 50 feet wide, 50 rods, at 10d. ...	2	1	8			
Grubbing and clearing out old logs, 50 rods, at 2s. 6d. ...	6	5	0			
Fascining and forming road for 68 rods, at 7s. ...	23	16	0			
Culverts, large ones, three, at 50s. ...	7	10	0			
Deepening side drain and mending road, 300 rods, at 2s. ...	30	0	0			
				69	12	8
Estimate Section No. 47, Mile 49th. O.S. No. 43.						
Whole Section in woods, only the east part requires to be chopped wider and grubbed.						
Chopping and clearing off 52 feet wide, 160 rods, at 10d. ...	6	13	4			
Grubbing and clearing out old logs, 160 rods, at 2s. 6d. ...	20	0	0			
Forming road with heavy side drains, 280 rods, at 4s. ...	56	0	0			
A bridge 90 feet long, repairs to it ...	15	0	0			
Culverts, large ones, three, at 50s. ...	7	10	0			
Heavy lateral drain, 40 rods, at 5s. ...	10	0	0			
Culverts, small ones, four, at 30s. ...	6	0	0			
				121	3	4
Estimate Section No. 48, Mile 50th. O.S. No. 44.						
This Section comes to near the turn to the Springs, nearly the whole length in woods.						
Chopping and clearing off 210 rods, at 10d... ..	8	15	0			
Grubbing and clearing out 200 rods, at 2s. 6d. ...	25	0	0			
Forming road with side drains, 320 rods, at 3s. ...	48	0	0			
Two Bridges that will require some repairs ...	12	10	0			
Bridge over _____ Creek, 60 feet long and 15 feet high ...	25	0	0			
				119	5	0
Total amount of Estimate ... ..	...	...	...	£6193	6	6

I have made no estimate for the distance, from the turn to the Caledonia Springs, to the village of L'Original, as I had no instructions so to do; yet I would recommend that the sum of £250 be expended upon it, to put it in a proper state of repair.

JAS. WEST.

Rear of Matilda, Eastern District,
14th April, 1846.

Appendix
(V. V.)

Appendix
(V. V.)

30th May.

30th May.

ESTIMATE of the Cost of the Work to be performed in the construction of the Road from Bytown to L'Original.

Estimate Section No. 1.	£ s. d.	£ s. d.
Whole length of Section 1 mile and 10 rods, or 330 rods. Commencing on the east side of Green's Creek near end of bridge over creek, and 10 rods west of the 6 mile post, and ending at the 7 mile post. Exeavation and formation of road as it winds up the hill 30 rods in length, the hill slopes about 1 in 3, and the base of the excavation being about 11 feet, will give with the double slope about 30 cubic yards to the rod in length, which at 3d. per yard will be 7s. 6d. per rod for exeavation and formation. The retaining wall will generally require to be from 4 to 4½ feet high; and built as per general specification, will be worth 4s. 6d. per rod. The Parapet or guard wall will be worth 4s. per rod in length.		
Chopping and clearing off on the whole Section, the part to be cleared to the full width of 66 feet, being 154 rods, at 1s. is	7 14 0	
Grubbing, clearing off old logs and the stumps, on whole Section, 154 rods, at 2s. 6d. ...	19 5 0	
Excavation and formation up bank and at brow of hill, which is about 70 feet perpendicular above the creek, 30 rods, at 7s. 6d.	11 5 0	
Retaining wall, 20 rods, at 4s. 6d.	4 10 0	
Parapet or guard, 22 rods, at 4s.	4 8 0	
Formation of road from brow of hill for 84 rods:—Drain on south side 2½ feet wide at bottom, 3 feet deep, 84 rods, at 2s. 6d.	10 10 0	
Drain on North side 2 feet wide at bottom, 2 feet deep, 84 rods, at 1s. 3d.	5 5 0	
Forming road at east end of Section for 40 rods:—Drain on each side 2 feet wide at bottom, and on an average 2½ feet deep, in all 80 rods, at 1s. 6d.	6 0 0	
Culverts, one, at 30s.	1 10 0	
Lateral drain, clearing, digging, &c., 2 feet wide at bottom, 2½ feet deep, 10 rods, at 2s. ...	1 0 0	
Estimate Section No 2.		71 7 0
Whole length of Section 1 mile, or 320 rods. This Section is heavy timbered pine, hemlock, &c., and is in parts very wet and springy; is opened about 12 feet wide, no grubbing, only part in clearing Forbus's.		
Chopping and clearing off 54 feet wide, 255 rods, at 1s.	12 15 0	
Grubbing and clearing out 28 feet wide, 255 rods, at 3s.	38 5 0	
Formation of 100 rods at beginning of Section:—Drain on South side 2 feet bottom 2½ feet deep, 100 rods, at 1s. 8d.	8 6 8	
Drain on North side 2 feet bottom 1½ feet deep, 100 rods, at 1s.	5 0 0	
Culverts, three, at 30s.	4 10 0	
Lateral drain, chopping, clearing, grubbing, and digging, 2 feet bottom 2½ feet deep, 15 rods, at 2s.	1 10 0	
Levelling and shaping with water tables near Forbus's, 24 rods in length; drains 1½ feet bottom 1 foot deep, 24 rods, at 1s. 6d.	1 16 0	
Forming at end of Section 68 rods:—Drain on South side 2 feet bottom 2½ feet deep, 68 rods, at 1s. 8d.	5 13 4	
Drain on North side 2 feet bottom 1½ feet deep, 68 rods, at 1s.	3 8 0	
Culverts, one, at 30s.	1 10 0	
Fascining, 14 rods, at 3s.	2 2 0	
Estimate Section No. 3.		84 16 0
Whole length of Section 1 mile, or 320 rods. The whole Section is through woods, wet land, pine, hemlock, eedar, ash, and alder timbor; the road is opened only about 10 feet wide, and will be very heavy to clear and grub.		
Chopping and clearing off 56 feet wide, 320 rods, at 1s. 3d.	20 0 0	
Grubbing and clearing out old logs, 28 feet wide, 320 rods, at 3s. 6d.	56 0 0	
Cutting side drains and forming:—Drain on South side 2 feet bottom 2½ feet deep, 280 rods, at 1s. 8d.	23 6 8	
Drain on North side 2 feet bottom 1½ feet deep, 280 rods, at 1s.	14 0 0	
Fascining, 10 rods, at 3s.	1 10 0	
Culverts, three, at 30s.	4 10 0	
Clearing, grubbing, and cutting Lateral drain, 2 feet wide at bottom, 2½ feet deep, 26 rods, at 2s.	2 12 0	
Levelling and shaping the remaining 40 rods of Section, with water tables 1½ feet wide at bottom and 1 foot deep on each side, in all 40 rods, at 1s. 6d.	2 10 0	
Estimate Section No. 4.		124 8 8
Whole length of Section 1 mile, or 320 rods. The whole Section is through woods, wet land, pine, hemlock, eedar, ash, alder, &c. timber; the road is opened only about 10 feet wide, and part of that grown over with brush, very heavy to clear and grub.		
Chopping and clearing 56 feet wide, 320 rods, at 1s. 3d.	20 0 0	
Grubbing and clearing out 28 feet wide, 320 rods, at 3s. 6d.	56 0 0	
Cutting ditches and forming 112 rods in length at beginning of Section:—Ditch on South side 2 feet bottom 2½ feet deep, 112 rods, at 1s. 8d.	9 6 8	
Ditch on North side 2 feet bottom 1½ feet deep, 112 rods, at 1s.	5 12 0	
Carried over	£90 18 8	280 11 8

Appendix
(V. V.)

ESTIMATE of the Cost of the Work to be performed, &c.—(Continued.)

Appendix
(V. V.)

30th May.

30th May.

	£ s. d.	£ s. d.
<i>Brought over</i>		
Culverts, three, at 30s.	90 18 8	280 11 8
Clearing, grubbing, and cutting Lateral drain, 2 feet bottom 2½ feet deep, 20 rods, at 2s.	4 10 0	
Forming road down side of ravine at Bilberry Creek :—	2 0 0	
Building retaining wall, 8 rods, at 4s. 6d.	1 16 0	
Parapet or guard on wall, 10 rods, at 4s.	2 0 0	
Excavating the side of the hill and forming the road, as per specification, 10 rods, at 7s. 6d.	3 15 6	
Forming road on East side of Creek :—		
Excavating the hill and forming the road across the flat with the excavation, 410 cubic yards, at 5d.	8 11 0½	
Cutting ditches and forming East part of Section, being 196 rods in length :—Drain on South side, 2 feet bottom 2½ feet deep, 196 rods, at 1s. 8d.	11 6 8	
Drain on North side 1½ feet bottom 2 feet deep, 196 rods, at 1s. 1d.	10 12 4	
Culverts, four, at 30s.	6 0 0	
Clearing, cutting, and grubbing Lateral drain, 2 feet bottom 2½ feet deep, 26 rods, at 2s.	2 12 0	
Estimate Section No. 5.		144 2 2½
Length of Section, 1 mile or 320 rods.		
This Section is all through woods, part of which has been cleared, and the road partly formed by the excavation from a small ditch on South side. The timber on the Section is pine, hemlock, ash, &c.; the part opened is about 10 feet wide on an average.		
Chopping and clearing off 50 feet wide, 320 rods, at 10d.	13 6 8	
Grubbing and clearing out old logs, &c., 22 feet wide, 320 rods, at 2s. 4d.	37 6 8	
Forming the road 92 rods at beginning of Section :—Drain on south side, 2 feet bottom, 2½ feet deep, (is now partly made,) 92 rods, at 1s. 3d.	5 15 0	
Drain on north side, 1½ feet bottom, 1½ feet deep, 92 rods, at 1s.	4 12 0	
From end of last 92 rods to foot of Rocky Hill, being 100 rods, finishing ditch partly formed on the south side, and making it 1½ feet wide at bottom and 2 feet deep, 100 rods, at 1s. 3d.	6 5 0	
Drain on north side, 1½ feet bottom, 1 foot deep, 100 rods, at 10d.	4 3 4	
Twenty-four rods near top of hill to be cleared of stone and formed with water tables,—1½ feet wide at bottom 1 foot deep, 24 rods, at 4s.	4 16 0	
Forming road down side of rocky hill and building retaining wall and parapet of stone found in the hill, 18 rods, at 16s.	14 8 0	
Forming 110 rods of road at East end of Section :—Ditch on South side, 1½ feet bottom 2 feet deep, 110 rods, at 1s. 6d.	8 5 0	
Ditch on North side, 1½ feet bottom 1 foot deep, 110 rods, at 10d.	4 11 8	
Culverts, three, at 30s.	4 10 0	
Lateral drain, clearing and digging, &c., 1½ feet wide at bottom, 2 feet deep, 18 rods, at 1s. 6d.	1 7 0	
Estimate Section No. 6.		109 6 4
Length of Section 1 mile, or 320 rods.		
One half of this Section is through LaFlamme's clearing, having woods only on one side,—the remainder is through woods altogether.		
Chopping and clearing off 46 feet wide which is all through woods, being 160 rods, at 10d.	6 1 0	
Chopping and clearing off 33 feet wide, 100 rods, at 8d.	3 6 8	
Grubbing and clearing out 20 feet wide, 320 rods, at 2s. 3d.	36 0 0	
Forming road at different places, 50 rods in all :—		
Drains 1½ feet wide at bottom and 2 feet deep, and forming 50 rods, at 2s. 6d.	6 5 0	
Culverts, three, at 30s.	4 10 0	
Lateral drain, clearing of grubbing, and digging 1½ feet wide at bottom, 2 feet deep, 20 rods, at 2s.	2 0 0	
Estimate Section No. 7.		58 2 8
Length of Section 1 mile, or 320 rods.		
The whole of this Section is through woods and of the heaviest kind, being mostly pine and hemlock; heavy grubbing and clearing.		
Chopping and clearing 50 feet wide, 320 rods, at 1s. 3d.	20 0 0	
Grubbing and clearing off in heavy pine and hemlock, 28 feet wide, 320 rods, at 4s.	64 0 0	
Forming road with side drains, 106 rods, at beginning of Section :—		
Drain on south side 2½ feet at bottom, and an average of 3 feet deep, 106 rods, at 2s. 6d.	13 5 0	
Drain on north side 1½ feet bottom, 1½ feet deep, 106 rods, at 10d.	4 8 4	
Culverts, three, at 30s.	4 10 0	
Levelling hog's back or ridge on west side of Leonard's Creek, cutting it to an average of three feet deep, 13 rods, at 3s. 6d.	2 5 6	
Cutting down brow and filling hollow	1 0 0	
Forming road up face of hill on east side of Leonard's Creek, rise being about 65 feet, 50 of which will be overcome in the first 26 rods, and the rest by a gradual winding up the hill :—		
Retaining wall of pine, 20 rods, at 4s. 6d.	4 10 0	
Excavation and forming on side of hill, 26 rods, at 7s. 6d.	9 15 0	
Parapet or guard, 20 rods, at 4s.	4 0 0	
Forming the next piece, being 144 rods long :—		
Drain on south side, 2 feet at bottom and 2½ feet deep on average, 144 rods, at 1s. 8d.	12 0 0	
Drain on north side the same, 144 rods, at 1s. 8d.	12 0 0	
Culverts, three, at 30s.	6 0 0	
Cutting out, grubbing, and digging Lateral drain, 1½ feet wide at bottom, 2½ feet deep, 30 rods, at 2s. 2d.	3 5 0	
Carried forward		£160 18 10
		592 2 10½

Appendix
(V. V.)

ESTIMATE of the Cost of the Work to be performed, &c.—(Continued.)

Appendix
(V. V.)

30th May.

30th May.

	£	s.	d.	£	s.	d.
<i>Brought forward</i>	160	18	10	592	2	10½
Forming 25 rods at end of Section:—						
Drain on south side, 1½ feet bottom, 2 feet deep, 25 rods, at 1s.	1	5	0			
Drain on north side, 1½ feet bottom, 1 foot deep, 25 rods at 9d.	0	18	9			
				163	2	7
Estimate Section No. 8.						
Length of Section 1 mile.						
The whole of this Section is through woods, but they are generally hard wood timber in which the chopping and grubbing is not very heavy; the road has been opened on an average 14 feet wide, but must be cut out anew for a short distance to straighten it.						
Chopping and clearing 52 feet wide, 320 rods, at 10d.	13	6	8			
Grubbing and clearing out old logs, 20 feet wide in part, and 28 feet in part cut out anew, 320 rods, at 2s. 4d.	37	6	8			
Clearing part of the distance of stone, and forming the whole length of Section, Drain on each side 2 feet wide at bottom, and on an average 1½ feet deep, and picking off stone and forming, 320 rods, at 3s.	48	0	0			
Culverts, four, small, at 25s.	5	0	0			
Clearing, grubbing, and cutting Lateral drain, 1½ feet bottom, 1½ feet deep, 28 rods, at 1s. 3d.	1	15	0			
				105	8	4
Estimate Section No. 9.						
Length of Section 1 mile.						
Whole length of Section through woods, timber—mixed hardwood, pine, hemlock, &c. Road opened to about 14 feet wide.						
Chopping and clearing off 52 feet wide, 320 rods, at 10d.	13	6	8			
Grubbing and clearing off old logs, &c., 20 feet wide, 320 rods, at 2s. 4d.	37	6	8			
Forming road and clearing off some stony places through whole Section:—						
Drain on south side, 2 feet wide at bottom, and average 2½ feet deep, 320 rods, at 1s. 8d.	26	13	4			
Drain on north side, 1½ feet bottom, 1 foot deep, 320 rods at 9d.	12	0	0			
Culverts, five, at 30s.	7	10	0			
				96	16	8
Estimate Section No 10.						
Length of Section 1 mile.						
Part only of this Section has woods upon it, the remainder being through clearing; the woods are mixed timber, hardwood, pine and hemlock.						
Chopping and clearing off 52 feet wide, 238 rods, at 10d.	9	18	4			
Grubbing, &c., 28 feet wide, 238 rods, at 2s. 4d.	27	15	4			
At beginning of Section, ditching and forming 88 rods in length:—						
Ditch on south side, 2 feet bottom, 2½ feet deep, 88 rods, at 1s. 8d.	7	6	8			
Ditch on north side, 1½ feet bottom, 1 foot deep, 88 rods, at 9d.	3	6	0			
Culverts, three, at 30s.	4	10	0			
Levelling ground, digging water tables, and forming road; water tables to be 2 feet wide at bottom, and 1½ feet deep, for the whole, 30 rods, at 2s. 3d.	3	7	6			
Forming road, sloping down side of bank to the level ground, 50 rods, at 6s. 3d.	15	12	6			
Forming road at east end of Section, 167 rods, of which 30 rods are to have a—						
Drain on south side, 2 feet bottom, 2 feet deep, 30 rods, at 1s. 4d.	2	0	0			
Drain on north side, 2 feet bottom, 1½ feet deep, 30 rods, at 1s.	1	10	0			
The remaining 123 rods to have a—						
Drain on south side, 2½ feet bottom, and 3 feet deep, 123 rods, at 2s. 6d.	15	7	6			
Drain on north side, 2 feet bottom, and 1½ feet deep, 123 rods, at 1s.	6	3	0			
Culverts, three, at 30s.	6	0	0			
Lateral drain, clearing and digging, 2 feet bottom, 2½ feet deep, 60 rods, at 2s.	6	0	0			
				108	16	10
Estimate Section No. 11.						
Length of Section 1 mile.						
The whole of this Section is in cleared land, and has not much work on it for the present.						
Clearing off some brush and grubbing four or five stumps	2	0	0			
Forming 8 rods in length of road at beginning of Section:—						
Two drains 2 feet at bottom, 2½ feet deep, 16 rods, at 1s. 8d.	1	6	8			
Culvert, one, at 30s.	1	10	0			
				4	16	8
Estimate Section No. 12.						
Length of Section 1 mile.						
This Section at beginning through cleared land, the remainder of the Section heavy timber, pine, hemlock, and broken uneven land.						
Chopping and clearing off 60 feet wide, 220 rods at 1s.	11	0	0			
Grubbing, clearing, &c., 28 feet wide, 220 rods, at 2s. 6d.	27	10	0			
Forming road down slope of edge of ravine or hill to the level ground below, 10 rods, at 6s. 3d.	3	2	6			
Levelling sand knolls and forming road, 30 rods, at 6s. 3d.	9	7	6			
Removing logs, fascining, forming, and 49 rods in length from end of last work:—						
Making and laying fascines on 21 rods, at 3s.	3	3	0			
Drain on south side 2½ feet bottom 2½ feet deep, 49 rods, at 2s.	4	18	0			
Drain on north side 2 feet bottom 2 feet deep, 24 rods, at 1s. 8d.	2	0	0			
Continuation of drain on north side over higher land to creek, 25 rods, at 1s.	1	5	0			
<i>Carried over</i>	£62	6	0	1071	3	11½

Appendix
(V. V.)

ESTIMATE of the Cost of the Work to be performed, &c.—(Continued.)

Appendix
(V. V.)

30th May.

30th May.

	£	s.	d.	£	s.	d.
<i>Brought over</i>	62	6	0	1071	3	11½
Forming road from creek eastward 151 rods, to foot of another sand hill :—						
Drain on south side, 2 feet bottom, 2½ feet deep, 151 rods, at 1s. 8d.	12	11	8			
Drain on north side 1½ feet bottom 1½ feet deep, 151 rods, at 10d.	6	5	10			
Making and laying fascines on 41 rods, at 3s.	6	3	0			
Excavating and forming road up side of the sand hill, 20 rods at 10s.	10	0	0			
Levelling and forming road at east end of Section, 57 rods :—						
Drain on each side, 1½ feet bottom, 1½ feet deep, 114 rods, at 1s.	5	14	0	103	0	6
Estimate Section No. 13.						
Length of Section 1 mile.						
Part of this Section through woods, timber—pine, hemlock, birch, ash, &c., and some part of it very wet. Beckwith's creek and another large creek passes through it, very heavy clearing and grubbing all through it.						
Chopping and clearing off 52 feet wide, 260 rods, at 10d.	10	16	8			
Grubbing and clearing out 24 feet wide, 320 rods, at 2s. 6d.	40	0	0			
From beginning of Section to first large creek, 86 rods, forming road with side drains :—						
Drain on south side, 2 feet bottom, 1½ feet deep, 86 rods, at 1s.	4	6	0			
Drain on north side, 2 feet bottom, 1½ feet deep, 86 rods, at 1s.	4	6	0			
Culverts, two, at 30s.	3	0	0			
Lateral drain, chopping, clearing, and digging, 1½ feet bottom, 2 feet deep, 20 rods, at 1s. 3d.	1	5	0			
Formation of road down the side of ravine on west side, and up on east side of creek :—						
Excavating and forming 12 rods down on one side, the same up on the other, 24 rods, at 7s. 6d.	9	0	0			
Retaining wall on both sides, 20 rods, at 4s. 6d.	4	10	0			
Parapet or guard for both sides, 24 rods, at 4s.	4	16	0			
Formation of road from this creek to Beckwith's creek, 50 rods :—						
Ditch on south side, 2 feet bottom, 2½ feet deep, 50 rods, at 1s. 8d.	4	3	4			
Ditch on north side 2 feet bottom, 1½ feet deep, 50 rods, at 1s.	2	10	0			
Culverts, one, at 30s.	1	10	0			
Formation of road down and up the sides of the ravine in which Beckwith's creek is, the creek below the level of the land above, about 70 feet :—						
Excavation and forming on west side down the bank, 20 rods, at 7s. 6d.	7	10	0			
Retaining wall, 15 rods, at 4s. 6d.	3	7	6			
Parapet or guard, 20 rods, at 4s.	4	0	0			
Amount for east side the same, including the excavation of the brow	14	17	6	119	18	0
Estimate Section No. 14.						
Length of Section 1 mile.						
The greater part of this Section passes through woods, timber—pine, hemlock, ash, spruce, &c.; heavy clearing and grubbing. Through part of the Section the road is partly formed, by excavation from a shallow drain on south side; and the lower spots are crosswayed.						
Chopping and clearing out 50 feet wide, 270 rods, at 10d.	11	5	0			
Grubbing and clearing logs, &c., 20 feet wide, 270 rods, at 2s. 6d.	33	15	0	45	0	0
Estimate Section No. 15.						
Length of Section 1 mile.						
Two-thirds of this Section is through woods, but they are rather lighter than the last past; the road is opened from 16 to 20 feet wide, and is very level.						
Chopping and clearing out the road to its full width, being about 48 feet wider than it is at present, for 220 rods, at 10d.	9	3	4			
Grubbing 6 or 8 pine stumps	1	15	0	10	18	4
Estimate Section No. 16.						
Length of Section 1 mile.						
Only about half of this Section has woods upon it; they are pine, hemlock, ash, &c.						
Chopping and clearing out 50 feet wider than at present opened, for 160 rods, at 10d. ...	6	13	4			
Removing stump, &c.	1	10	0	8	3	4
Estimate Section No. 17.						
Length of Section 1 mile.						
The road through the greater part of this Section has woods on one or both sides of it, and are pine, hemlock, spruce, &c., heavy clearing.						
Chopping and clearing out 50 feet wider than the present opening, for 300 rods, at 1s. ...	15	0	0			
Clearing off some stones in James M'Call's clearing, and levelling roadway	2	10	0	17	10	0
Estimate Section No. 18.						
Length of Section 1 mile.						
Of this Section 230 rods goes through woods which are very heavy, being pine, hemlock, &c.						
Chopping and clearing out 50 feet wide for a distance of 230 rods, at 1s.	11	10	0			
Grubbing a few stumps that are in the road	2	10	0	14	0	0
<i>Carried forward</i>				£1389	14	1½

Appendix
(V. V.)

ESTIMATE of the Cost of the Work to be performed, &c.—(Continued.)

Appendix
(V. V.)

30th May.

30th May.

	£	s.	d.	£	s.	d.
<i>Brought forward</i> ... ..	...	...	...	1889	14	1½
Estimate Section No. 19.						
Length of Section 1 mile. This Section is all through pine woods, and is heavy chopping. Fox's creek crosses it at the east end nearly.						
Chopping and clearing out 52 feet wide for 320 rods, at 1s.	16	0	0			
Forming road sloping up the bank of the east branch of Fox's creek, and grubbing 5 pine stumps there, 10 rods, at 10s.	5	0	0			
Laying retaining wall, 8 rods, at 4s. 6d.	1	16	0			
Parapet or guard, 9 rods, at 4s.	1	16	0			
				24	12	0
Estimate Section No. 20.						
Length of Section 1 mile. The beginning of this Section is in woods, the greater part is fully opened, being in what is called the New England Settlement.						
Chopping and clearing off at beginning of Section to the full width of 66 feet, in heavy pine and hemlock timber, 42 rods at 1s.	2	2	0			
Grubbing, clearing off rock, stones and old logs, levelling knolls, forming, &c., 42 rods, at 6s. 3d.	13	2	6			
Widening the remaining 40 rods to the Creek at beginning of clearing, 40 rods, at 6d.	1	0	0			
Clearing stone off knoll and levelling, 10 rods, at 7s. 6d.	3	15	0			
				19	19	6
Estimate Section No. 21.						
Length of Section 1 mile. This Section goes only part way in woods, which are to be chopped and cleared off to the full width of 66 feet, 186 rods, at 10d.						
Grubbing and clearing off old logs, 186 rods, at 2s. 3d.	10	18	6			
				18	13	6
Estimate Section No. 22.						
Length of Section 1 mile. This Section is part in clearing and part in woods, is situated back of Fox's Point; heavy pine land.						
Chopping and clearing off in such places as woods occur, 250 rods, at 1s.	12	10	0			
				12	10	0
Estimate Section No. 23.						
Length of Section 1 mile. Part of this Section is cleared and part in woods; heavy pine land from beginning to end.						
Chopping and clearing out to the full width of 66 feet, 240 rods, at 1s.	12	0	0			
Grubbing and clearing off old logs, &c., 320 rods, at 3s.	48	0	0			
A deep ravine through which Anderson's Creek passes; formation of road down west side back of ravine :—						
Excavation and forming, 20 rods, at 7s. 6d.	7	10	0			
Retaining wall, 18 rods, at 4s. 6d.	4	1	0			
Parapet or guard, 20 rods, at 4s.	4	0	0			
Formation of road up east side, the same	15	11	0			
				91	2	0
Estimate Section No. 24.						
Length of Section 1 mile. This Section begins at Gifford's, and is nearly all through woods which are heavy pine timber, mixed with hemlock, balsam, ash, &c.						
Chopping and clearing off 290 rods, at 1s.	14	10	0			
Grubbing and clearing off old logs, &c., 320 rods, at 3s.	48	0	0			
				62	10	0
Estimate Section No. 25.						
Length of Section 1 mile. This Section begins at the end of the bridge over creek in a deep ravine, and is nearly all through woods, pine, hemlock, cedar, ash, &c., lowish wet land. End of Section in Roe's clearing, and near line between Clarence and Plantagenet.						
Chopping and clearing off 52 feet wide, 300 rods, at 1s.	15	0	0			
Grubbing and clearing off old logs, 28 feet wide, 300 rods, at 2s. 6d.	37	10	0			
Formation of road from bridge at beginning of Section up the side of the ravine to top of bank or level land above :—						
Excavation and forming road on side, 12 rods, at 5s.	3	0	0			
Retaining wall, 10 rods, at 4s. 6d.	2	5	0			
Parapet or guard, 12 rods, at 4s.	2	8	0			
Forming 30 rods from the end of the above work :—						
Drain on south side, 2 feet bottom, 2½ feet deep, 30 rods, at 1s. 8d.	2	10	0			
<i>Carried over</i>	£62	13	0	1619	1	1½

Appendix
(V. V.)

ESTIMATE of the Cost of the Work to be performed, &c.—(Continued.)

Appendix
(V. V.)

30th May.

30th May.

	£	s.	d.	£	s.	d.
<i>Brought over</i>	62	13	0	1619	1	1½
Drain on north side, 2 feet bottom, 1½ feet deep, 30 rods, at 1s.	1	10	0			
Culverts, one, at 30s.	1	10	0			
The space from here to deep ravine near the east end of Section requires forming and draining very much, but must remain for the present.						
Formation of road at deep ravine near Roe's clearing:—						
Excavation and formation on west side of ravine down to end of bridge, 16 rods, at 7s. 6d.	6	0	0			
Retaining wall, 10 rods, at 4s. 6d.	2	5	0			
Parapet or guard, 12 rods, at 4s.	2	8	0			
Excavation and formation on east side up the bank, 20 rods, at 7s. 6d.	7	10	0			
Retaining wall, 12 rods, at 4s. 6d.	2	14	0			
Parapet or guard, 15 rods, at 4s.	3	0	0			
Formation of remainder of Section, 16 rods:—						
Drain on south side, 2½ feet bottom, 2½ feet deep, 16 rods, at 2s.	1	12	0			
Drain on north side, 2 feet bottom, 1½ feet deep, 16 rods, at 1s.	0	16	0			
91 18 0						
Estimate Section No. 26.						
Length of Section 1 mile.						
Nearly the whole of this Section in woods, pine, ash, hemlock, spruce, &c., and nearly all very wet land.						
Chopping and clearing off 50 feet wide, 300 rods, at 1s.	15	0	0			
Grubbing and clearing off old logs, 22 feet wide, 300 rods, at 2s. 3d.	33	15	0			
Formation of road at beginning of Section, 80 rods:—						
Drain on south side, 2 feet wide at bottom, 2½ feet deep, 80 rods, at 1s. 8d.	6	13	4			
Drain on north side, 1½ feet bottom, 2 feet deep, 80 rods, at 1s.	4	0	0			
Culverts, two, at 30s.	3	0	0			
Lateral drain, 1½ feet bottom, 2½ feet deep, 20 rods, at 1s. 6d.	1	10	0			
Cutting down brow of ravine and forming road to end of bridge, being 370 cubic yds. at 4d.	6	3	4			
Excavation and formation on side of ravine, 20 rods, at 7s. 6d.	7	10	0			
Retaining wall, 10 rods, at 4s. 6d.	2	5	0			
Parapet or guard, 12 rods, at 4s.	2	8	0			
Forming road to Alexander Cunningham's clearing:—						
Drain on south side, 2 feet bottom and 2½ feet deep, 60 rods, at 1s. 8d.	5	0	0			
Drain on north side, 1½ feet bottom and 2 feet deep, 60 rods, at 1s.	3	0	0			
Culverts, two, at 30s.	3	0	0			
Chopping, clearing, and digging Lateral drain, 1½ feet bottom, 2½ feet deep, 20 rods, at 1s. 8d.	1	13	4			
From beginning of highland at Cunningham's clearing, to creek next east of his place, a distance of 84 rods, the road must do for the present by being grubbed and levelled.						
Forming road at bank of creek, cutting down the brow on each side, and levelling down excavation	6	15	0			
Forming road to end of Section, 56 rods in length:—						
Ditch on south side, 2½ feet bottom, 3 feet deep, 56 rods, at 2s. 6d.	7	0	0			
Ditch on north side, 2 feet bottom, 1½ feet deep, 56 rods, at 1s.	2	16	0			
Culverts, two, large, at 40s.	4	0	0			
Lateral drain, clearing and digging, 2 feet bottom, 2½ feet deep, 25 rods, at 2s.	2	10	0			
117 19 0						
Estimate Section No. 27.						
Length of Section 1 mile.						
Part of this Section is through clearing and part in woods, which are heavy timbered, pine, hemlock, ash, balsam, and spruce.						
Chopping and clearing off 50 feet wide, 196 rods at 1s.	9	16	0			
Grubbing and clearing out 28 feet wide, 196 rods, at 2s. 6d.	24	10	0			
Forming road at large creek beyond M'Geough's clearing:—						
Drain on south side, 2½ feet bottom, 3 feet deep, 20 rods, at 2s. 9d.	2	15	0			
Culvert, one, large, at 40s.	2	0	0			
Cutting down brow of hill and forming road near end of bridge	5	10	0			
Formation of road on east side of ravine up a gully which will require very little retaining wall or parapet, 16 rods, at 12s. 6d.	10	0	0			
54 11 0						
Estimate Section No. 28.						
Length of Section 1 mile.						
Part of this Section is in clearing and part in woods; not very heavy clearing, but heavy pine grubbing.						
Chopping and clearing out 50 feet wide, 156 rods, at 1s.	7	16	0			
Grubbing and clearing out old logs, 20 feet wide, 320 rods, at 2s. 6d.	40	0	0			
Forming east half of Section, being 160 rods:—						
Drain on south side, 2 feet bottom, 2½ feet deep, 160 rods, at 1s. 8d.	13	6	8			
Drain on north side, 2 feet bottom, 1½ feet deep, 160 rods, at 1s.	8	0	0			
Culverts, three, at 30s.	4	10	0			
73 12 8						
Estimate Section No. 29.						
Length of Section 1 mile.						
The whole Section is through woods, but not very heavy to clear or grub.						
Chopping and clearing off 52 feet wide, 320 rods, at 10d.	13	6	8			
Grubbing and clearing out 20 feet wide, 320 rods, at 2s.	32	0	0			
45 6 8						
<i>Carried forward</i>						
1957 1 9½						

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ESTIMATE of the Cost of the Work to be performed, &c.—(Continued.)

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	£	s.	d.	£	s.	d.
<i>Brought forward</i>	45	6	8	1957	1	9½
Forming at beginning of Section 116 rods:—						
Drain on south side, 2 feet bottom, 2½ feet deep, 116 rods, at 1s. 8d..	9	13	4			
Drain on north side, 2 feet bottom, 1½ feet deep, 116 rods, at 1s.	5	16	0			
Culverts, three, at 30s.	4	10	0			
Estimate Section No. 30.						
Length of Section 1 mile. Whole Section through woods rather light clearing and grubbing.						
Chopping and clearing off 52 feet wide, 320 rods, at 10d.	13	6	8			
Grubbing and clearing out 20 feet wide, 320 rods, at 2s.	32	0	0			
Estimate Section No. 31.						
Length of Section 1 mile. This Section is opposite Jessup's Falls, and has to be entirely cleared and grubbed.						
Chopping and clearing off 66 feet wide, 320 rods, at 1s. 3d.	20	0	0			
Grubbing, removing old logs, and levelling, 28 feet wide, 320 rods, at 2s. 6d.	40	0	0			
See Estimate for Bridges, &c., on this Section.						
Estimate Section No. 32.						
Length of Section 1 mile. Whole Section in woods, but not heavy clearing.						
Chopping and clearing 52 feet wide, 320 rods, at 10d.	13	6	8			
Grubbing, removing old logs, levelling road, &c., 20 feet wide, 320 rods, at 2s.	32	0	0			
Estimate Section No. 33.						
Length of Section 1 mile. Nearly the whole Section in woods; is opposite Shannon Cottage, the residence of Colonel Kearnes; the woods not very heavy to clear or grub.						
Chopping and clearing off 52 feet wide, 280 rods, at 10d.	11	13	4			
Grubbing, removing old logs, and levelling, 20 feet wide, 300 rods at 2s.	30	0	0			
Estimate Section No. 34.						
Length of Section 1 mile, The greater part of this Section in woods, not very heavy clearing.						
Chopping and clearing off 52 feet wide, 250 rods, at 10d.	10	8	4			
Grubbing, clearing, levelling &c., 20 feet wide, 230 rods, at 2s.	25	0	0			
One small bridge 10 feet waterway, 100s.	5	0	0			
Estimate Section, No. 35.						
Length of Section 1 mile. This Section embraces the village of Hattville, and there crossing the Petit Nation River at the point where the bridge is to cross, the road takes a direct course to the sand hill called Poquette's Hill.						
Chopping and clearing 66 feet wide, 180 rods, at 10d.	6	10	0			
Grubbing, clearing out old logs, levelling ground, &c., 180 rods, at 2s.	18	0	0			
Estimate Section No. 36.						
Length of Section 1 mile. Nearly all this Section is in woods, but not very heavy clearing.						
Chopping and clearing off 52 feet wide, 300 rods, at 10d.	12	10	0			
Grubbing, clearing off and levelling about 20 feet wide, 300 rods, at 2s.	30	0	0			
Estimate Section No. 37.						
Length of Section 1 mile. All this Section in woods, not heavy clearing.						
Chopping and clearing off 52 feet wide, 320 rods, at 10d.	13	6	8			
Grubbing and clearing off, &c., 20 feet wide, 320 rods, at 2s.	32	0	0			
Estimate Section No. 38.						
Length of Section 1 mile. Part of this Section in Mr. Lyttel's clearing, the remainder in woods.						
Chopping and clearing off 52 feet wide, 225 rods, at 10d.	9	7	6			
Grubbing and clearing off 20 feet wide, 300 rods, at 2s.	30	0	0			
39 7 6						
<i>Carried over</i> ...				£2406	16	11½

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ESTIMATE of the Cost of the Work to be performed, &c.—(Continued.)

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	£	s.	d.	£	s.	d.
<i>Brought over</i>	2406	16	11½
Estimate Section No. 39.						
Length of Section 1 mile. Whole Section in woods, pine, hemlock, &c.						
Chopping and clearing off 52 feet wide, 320 rods, at 10d.	13	6	8			
Grubbing, clearing off, levelling, &c. 20 feet wide, 320 rods, at 2s....	32	0	0			
				45	6	8
Estimate Section No. 40.						
Length of Section 1 mile, or 320 rods. All this Section in woods, the same kinds as last.						
Chopping and clearing off 52 feet wide, 320 rods, at 10d.	13	6	8			
Grubbing, clearing, and levelling 22 feet wide, 320 rods, at 2s. ...	32	0	0			
				45	6	8
Estimate Section No. 41.						
The whole length of Section 1 mile. The greater part of this Section in clearing Holmes's and others.						
Chopping and clearing off 52 feet wide, 98 rods, at 10d.	4	1	8			
Grubbing, clearing old logs, levelling, &c., 22 feet wide, 98 rods, at 2s. ...	9	16	0			
				13	17	8
Estimate Section No. 42.						
Length of Section 1 mile. This Section is in a large swamp, through which the road is pretty well opened and made, and requires opening and grubbing only at beginning.						
Chopping and clearing off 50 feet wide, for 50 rods, at 10d.	2	1	8			
Grubbing, clearing out old logs, levelling, &c., 20 feet wide, 50 rods, at 2s....	5	0	0			
				7	1	8
Estimate Section No. 43.						
Length of Section 1 mile. Whole Section in woods; on the east half requires to be chopped wider and grubbed.						
Chopping, clearing, &c., 52 feet wide, 160 rods, at 10d.	6	13	4			
Grubbing, clearing out old logs, levelling, &c., 20 feet wide, 160 rods, at 2s....	16	0	0			
				22	13	4
Estimate Section No. 44.						
Length of Section 1 mile. This Section comes to near the turn to the Springs at Langlois' Tavern, nearly the whole length in woods.						
Chopping and clearing off 52 feet wide, 210 rods, at 10d.	8	11	8			
Grubbing and clearing off old logs, levelling, &c., 22 feet wide, 190 rods, at 2s. ...	19	0	0			
				27	11	8
				£2568	14	7½

The whole distance to L'Original, 58 miles, is posted and divided into sections, but no further than here estimated.

SPECIFICATION OF THE WORK TO BE PERFORMED IN THE CONSTRUCTION OF THE ROAD FROM BYTOWN TO L'ORIGINAL.

GENERAL SPECIFICATION for the formation of the Road.

The Road where timber or brush grows on it is to be chopped and cleared out to the full width of 66 feet; it is to be graded 20 feet wide within the water tables, this space, together with the width for the water tables or side drains,—which will generally be about 8 feet, in all about 28 feet,—to be cleared of all stumps, trees, and underbrush, with their roots, which are to be removed; as are also any old cross-way logs or other obstructions, the entire of which are to be burned or otherwise got rid of, or placed

outside of the Road allowance, at the option of the Contractor, and with the consent of the proprietors of the land; but no formation or filling over such portions as required grubbing shall be commenced until they are first inspected by the Engineer.

Where the Road may require fascines, they are to be made of long young brush without leaves, the stems not to exceed two inches in diameter, well tied in bundles 16 feet long, 9 inches thick at the centre, and 5 inches thick at each end, each bundle or fascine to be tied with three withes, one in the centre, and one about half way between the centre

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and each end: these to be carefully laid, as directed by the Engineer, and the entire to be covered 14 inches deep at least, with the excavation from the side drains.

The side and lateral drains to have slopes of $\frac{1}{2}$ horizontal to 1 perpendicular, and the side drains are to be 2 feet 6 inches wide at bottom, unless otherwise specified;—which shall be at such a level, and to be carried down to the respective off-take, or lateral drains; with such an inclination as will prevent the lodgment of water in any instance, at a level within 3 feet of the crown of the Road: the excavation from the side drains in all cases to be laid on to form the Roadway, unless otherwise mentioned.

The cross section of the Road to be neatly formed, inclining from the centre of the crown of the Road to the water tables, or side ditches, at the edge of which the formation is to stand 12 inches lower than the crown of the Road.

In cases where the Road is carried along the side long cuts, the cross section will incline wholly to the hill side, and the surface or other waters to be carried down the water tables at the foot of the slope to the culverts.

The excavation in the Roadway will be 18 feet wide between the water tables, when the Road cuts through the brows of ravines or gullies, the side slopes will then be 1 horizontal to 1 perpendicular.

In all cases where the Road is carried down and up the sides of ravines or gullies, and where it may be necessary to lay retaining walls of timber on the lower side, the land tie-pieces to be laid into the side of the hill at 6 feet apart, and cross pieces pinned to the end of them, where thought necessary, and the whole wall securely formed, before the excavation from the upper side is put in; in all these cases the Road formation will require to be 24 feet wide.

Culverts to be made of good sound cedar logs not less than 10 inches diameter at the smaller end. Three sleepers, five feet long each, to be laid lengthwise of the Road, and to be well bedded in the earth, level with the bottom of the side drains, so as to allow the free passage of the water.

Face timber to be 22 feet long; they are to be laid upon the sleepers three feet apart for waterway, a gin to be cut into each sleeper of 2 inches in depth, and the side pieces to be flatted and squared to fit into them, and then well pinned down with white oak treenails not less than 2 inches in diameter; the side pieces to be then flatted on the upper side, and a similar one flatted and laid upon it, and secured to the under one with treenails as above. The logs to be so thick as to leave a passage of at least 18 inches deep for water; across these side pieces are to be laid string pieces, or short pieces, lengthways of the Road close together, and let into the side pieces with a shoulder, and well secured with treenails; the whole to be covered at least six inches deep with earth, which is to be then level with the Road. The whole to be finished according to the plan here given.

Where large culverts may be required, they must have four sleepers, and the side pieces be 4 feet apart, and to have 2 feet depth of waterway.

The parapet or guard to be made at least 4 feet high, of round logs of sound pine timber of from 8 to 12 inches diameter at its smaller end, spotted and well pinned down on short pieces laid at right angles

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to the length of the Road, being each 3 feet long, and laid from 12 to 16 feet apart, as the strength of the timber may be; or, if found more convenient and equally as good, to be framed and braced, should the Engineer so direct.

Culverts to be made of good sound cedar timber, not less than 10 inches diameter at the smaller end. Four sleepers, five feet long each, to be laid lengthways of the Road, and to be well bedded in the earth, level with the bottoms of the side drains, so as to allow the free passage of the water. Face timbers to be 22 feet long; these are to be laid upon the sleepers 3 feet apart for waterway, spotted, to lie firmly, and treenailed; three land ties on each side are then to be dovetailed into this, and pinned down; other pieces are to be laid upon these, and secured in like manner, making the sides of the culvert two logs high. Four string pieces are then to be laid across, and let into the top logs, and treenailed; on these the covering, spotted, to lie on the string pieces, and sided and flatted on the top, and laid firm and securely; the Road then made a few inches higher than the top or covering.

SPECIFICATION, SECTION No. 1.

Length of Section 1 Mile and 10 Rods, or 330 Rods.

Commencing on east side of Green's Creek, near end of Bridge, and extending to post marked 7 miles on west side, and section 2 on east side.

The part of the section having woods upon it to be chopped and cleared off to the width of 66 feet, and the centre or road part to be grubbed and cleared of old logs to the width of 28 feet, as per general specification.

The formation of the Road on this section to commence at beginning of section on east side of Bridge, and slope gradually in the direction of up the Creek, and likewise up the bank side for a distance of about 15 rods, then turning around, slope up the side of the bank for 15 rods more, and join on the south the present opened Road at the top of the bank, as marked out on the ground; the whole to be completed as per general specification, for formation of Road on hill or ravine sides.

From the termination of this work the Road to be formed as per general specification to the side line between Lots Nos. 13 and 14, being a distance of about 84 rods. Drain on south side to be $2\frac{1}{2}$ feet wide at bottom, and on an average 3 feet deep, sloping $\frac{1}{2}$ to 1. Drain on north side 2 feet at bottom, and 2 feet deep.

Forty rods at the east end of section to be formed as per general specification. Drain on south side 2 feet wide at bottom, and $2\frac{1}{2}$ feet deep, on north side the same. 1 Culvert and 10 rods of lateral drain; drain to be 2 feet wide at bottom, and 2 feet deep on an average.

SPECIFICATION, SECTION No. 2.

Length of Section 1 Mile, or 320 Rods.

Only a small part of this section in clearing. The part of the section having woods upon it to be chopped and cleared off to the full width of 66 feet, and to be grubbed to full width of 28 feet.

At beginning, or west end of section, the Road to be formed, as per general specification, with side drains, for the distance of 100 rods. Drain on south

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side to be 2 feet wide at bottom, and $2\frac{1}{2}$ feet deep on an average; and the one on the north side to be 2 feet wide at bottom, and $1\frac{1}{2}$ feet deep. Three culverts and 15 rods of lateral drain; lateral drain to be 2 feet wide at bottom, and $2\frac{1}{2}$ feet deep. The remainder, to the edge of Forbus' clearing, being about 24 rods, to be levelled and formed with water tables $1\frac{1}{2}$ feet wide at bottom, and 1 foot deep; the excavation from the water tables to be laid on to form the crown of the Road.

At east end of section, near Old Goquies' Shanty, 68 Rods of the Road to be formed, as per general specification, with side drains; that on the south side to be 2 feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep; that on the north side to be 2 feet wide at bottom, and on an average $1\frac{1}{2}$ feet deep, to be carried from both ways into the Creek, near Goquies' Shanty, on west side of this Creek, 14 rods in length, to be laid with fascines in the low springy land. One culvert to carry water from north side into south drain.

SPECIFICATION, SECTION No. 3.

Length of Section 1 Mile, or 320 Rods.

Whole section in woods. The whole section to be chopped and cleared to the full width of 66 feet, and to be grubbed and cleared of old logs to the width of 28 feet; the pine stumps to be well taken out.

280 rods of this section to be formed, as per general specification, with side drains; that on the south side to be 2 feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep; that on the north side to be 2 feet wide at bottom, and on an average $1\frac{1}{2}$ feet deep; this forming to be done in low wet parts, and where marked to be done.

Three culverts and 26 rods of lateral drain; drain to be 2 feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep. The side drains to be cut likewise into the four creeks crossing this section. Ten rods in length of the Road near the east end of the section to be laid with fascines. The remainder of the section to be levelled and shaped with water tables, $1\frac{1}{2}$ feet wide at bottom, and 1 foot deep on an average; the excavation from the water tables to be laid on to form the crown of the Road.

SPECIFICATION, SECTION No. 4.

Length of Section 1 Mile, or 320 Rods.

The Road through whole section to be chopped and cleared of timber to the full width of 66 feet, and to be grubbed and cleared of old logs, &c. to the width of 28 feet.

From beginning of section to Billberry Creek, a distance of 112 rods, to be formed as per general specification; the ditch on south side to be 2 feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep; and that on the north side to be 2 feet wide at bottom, and on an average $1\frac{1}{2}$ feet deep.

Three culverts and 20 rods of lateral drain; drain to be 2 feet wide at bottom, and $2\frac{1}{2}$ feet deep. The ditch on the south side of Road to be carried into Billberry Creek, if the ground near the Creek should not prove too high.

The Road, in coming from the west, on coming near the bank of the ravine in which Billberry Creek is, to curve about four rods to the north of the place

now opened, and slope down the bank of the ravine to the place of abutment of bridge ten rods; on the opposite bank of the ravine the Road to slope up in like manner; to be formed with retaining wall and parapet, as per general specification on the west side. The Road on east side of the creek, over the flat, to be formed with excavation from the east bank of the ravine, and to be raised 4 feet on average above the level of the flat, the distance about 6 rods.

From the brow of the east bank of the creek for 20 rods eastward, the Road to be opened the full 66 feet on the south of the present cut out place, and the 28 feet wide of grubbing to be done there.

From this east brow of the ravine to the east end of section, a distance of 196 rods, Road to be formed as per general specification; the ditch on the south side to be two feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep, and to be cut into Billberry Creek; the ditch on north side to be $1\frac{1}{2}$ feet wide at bottom, and on an average 2 feet deep, to be carried likewise into Billberry Creek.

Four culverts and 26 rods of lateral drain; drain to be 2 feet wide at bottom, and on average $2\frac{1}{2}$ feet deep; culverts to be made at such spots as directed by the Engineer.

SPECIFICATION, SECTION No. 5.

Length of Section 1 Mile, or 320 Rods.

The Road on the whole section to be chopped and cleared out to the full width of 66 feet, and to be grubbed to the full width of 28 feet.

For 92 rods from the beginning of the section, the formation of the Road to be completed by cutting the present small drain to be 2 feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep, and forming the Road, as per general specification; the ditch on the north side to be $1\frac{1}{2}$ feet wide at bottom, and on an average $1\frac{1}{2}$ feet deep.

From the end of the last 92 rods to the foot of the rocky hill, a distance of 100 rods, the Road is partly formed, as in the last part, requiring on the south side a ditch $1\frac{1}{2}$ feet wide at bottom, and on an average 2 feet deep, and on the north side $1\frac{1}{2}$ feet wide at bottom, and on an average 1 foot deep; the excavation to be laid to form the crown of the Road evenly, and as directed in the general specification. As there are parts of this 100 rods which are dry, and will require only a shallow water table on each side, and the excavation thrown up evenly to form the centre of the Road the lower spots will require a ditch something deeper and wider than the average.

From the foot of this rocky hill, the end of this 192 rods, for 24 rods to near top of hill, the Road to be cleared of stone 28 feet wide, and formed with water tables $1\frac{1}{2}$ feet wide at bottom, and on an average 1 foot deep, the excavation to form the crown of the Road.

Near the top of the hill the Road to turn gently 50 feet to the north, and slope down the side of the stony hill; the side next the hill to be excavated, and the excavation laid on the lower side to form the Roadway; a retaining wall, of the large stone of which the hill is partly formed, to be laid firmly to support the Road, which is to be 24 feet wide; a parapet wall of dry stone work to be laid on the outside, to be no less than 3 feet high above the Roadway; good stone for the whole are abundant on the

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spot. The whole distance of the slope of the Road from top to level below is about 18 rods.

From the foot of this hill to the end of the section 110 rods, the Road is in spots partly formed; must be all formed where it is low, as per general specification, with ditch on south side $1\frac{1}{2}$ feet wide at bottom, and on an average 2 feet deep; and on the north side the ditch to be $1\frac{1}{2}$ feet wide at bottom, and on an average 1 foot deep; the whole Road to be levelled and formed neatly with the excavation, and the earth in the Road.

Three culverts and 18 rods of lateral drain to carry the water to the north; drain to be $1\frac{1}{2}$ feet wide at bottom, and on an average 2 feet deep.

SPECIFICATION, SECTION No. 6.

Length of Section 1 Mile, or 320 Rods.

The Road through the whole section to be chopped and cleared of timber 66 feet wide, and grubbed to 28 feet wide. The clearing and grubbing on this section is not heavy, as more than half of it is through Laflamme's clearing.

Through the whole section the land is high, and when cleared and grubbed will require only to be levelled and formed in a few spots, amounting to about 50 rods in length; this forming to be according to the general specification, and with side drains $1\frac{1}{2}$ feet wide at bottom, and 2 feet deep on an average, and to be in such places as the Engineer may point out.

Three culverts, and 20 rods of lateral drain; drain to be $1\frac{1}{2}$ feet wide at bottom, and on an average 2 feet deep.

SPECIFICATION, SECTION No. 7.

Length of Section 1 Mile, or 320 Rods.

The Road through the whole section to be chopped and cleared of timber 66 feet wide, and grubbed to 28 feet wide.

From beginning of section to the descent of the hill at Leonard's Creek, a distance of 106 rods, the Road is to be formed as per general specification; the ditch or drain on south side to be $2\frac{1}{2}$ feet wide at bottom, and on an average 3 feet deep, and to be carried into Leonard's Creek; the drain on the north side to be $1\frac{1}{2}$ feet wide at bottom, and on an average $1\frac{1}{2}$ feet deep, to be carried likewise into Leonard's Creek. Three small culverts in this distance to drain water from north side into the south side ditch.

The hog's back or ridge on west side of Leonard's Creek, down which the Road comes to the bridge, being 13 rods in length, to be levelled to both sides, and the brow or part next the bridge to be cut down to fill the hollow to the bridge; the whole to form a gradual slope down to the bridge. The cutting to be on an average 3 feet deep on the crown all through, commencing at the surface at the beginning of the ridge, and cutting slopingly down to the brow next the bridge.

The hill or bank of the ravine on east side of Leonard's Creek being very high and steep, will require particular care in making the Road up it; starting from the end of the bridge, the Road to turn to the right for four rods in length, or a little more if found necessary, then turning to the left, slope up

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the hill for four rods more; again, turning to the right, slope up the hill side for 8 rods, where the bank on edge of the present opened Road is to be cut into, and the excavation used to fill up the low hollow close by, the Road to continue to wind around and up the hill, as the whole is now marked on the ground,—the whole to be carefully made according to the general specification; the distance of Road winding up the hill to top of principal rise is about 26 rods.

From the end of this 26 rods to the small bridge at the entrance of Captain Petric's clearing, a distance of 144 rods, the Road to be formed, as per general specification, in the drier part, with side drains 2 feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep, to be the same dimensions on both sides.

Four culverts and 30 rods of lateral drain; drain to be $1\frac{1}{2}$ feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep.

From the small bridge before mentioned, at beginning of clearing, to end of section, a distance of 25 rods, the Road to be formed with a side drain $1\frac{1}{2}$ feet wide at bottom, and on an average 2 feet deep, on south side; and on north side, drain to be $1\frac{1}{2}$ feet wide at bottom, and on an average 1 foot deep; the excavation from both sides to be laid on the centre to form the crown of the Road, sloping to the sides, as per general specification.

SPECIFICATION, SECTION No. 8.

Length of Section 1 Mile, or 320 Rods.

The Road through the whole section to be chopped and cleared off to the full width of 66 feet, and grubbed to the full width of 28 feet wide; in some places the whole width of the Road will require to be cleared off, and the full width of 28 feet to be grubbed.

On the whole of this section the land is dry, and part of it stony; when cleared and grubbed, and the stony part cleared of stone, the Road to be formed, as per general specification, with side drains or water tables; that on the south side to be 2 feet wide at bottom, and on an average $1\frac{1}{2}$ feet deep; that on the north side to be the same. The side drains to carry the water into a creek crossing the Road near the east end of section, where a large culvert will be required; four small culverts will be required in the distance, and 28 rods of lateral drain; drain to be $1\frac{1}{2}$ feet at bottom, by $1\frac{1}{2}$ feet deep.

SPECIFICATION, SECTION No. 9.

Length of Section 1 Mile, or 320 Rods.

The Road through the whole section to be chopped and cleared to the full width of 66 feet, and to be grubbed to the width of 28 feet. Part of this section is to be cut out anew, and will require to be fully cleared and grubbed, the remainder will require only partial clearing and grubbing.

The whole section is on rather dry land, and will require to be formed with water tables only; that on the south side 2 feet wide at bottom, and on average $2\frac{1}{2}$ feet deep, being on the hill side; the drain on the north side to be $1\frac{1}{2}$ feet wide at bottom, and on an average 1 foot deep; the whole to be formed, as per general specification for Roads. In a few spots where stones occur, they will require to be cleared off; at the east end of section, the land being lower, will require the drain on the north side deeper.

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Four small culverts and one large one will be required on the section.

SPECIFICATION, SECTION No. 10.

Length of Section 1 Mile, or 320 Rods.

The Road through the whole section to be chopped and cleared off to the full width of 66 feet, and to be grubbed to the width of 28 feet for the Roadway; part of the section is through clearing. The woods at the entrance of M'Millan's clearing, on the right hand, or south side, to be cut out and grubbed wholly on the south side, in order to straighten the Road.

To the creek, at the entrance of this clearing, being from beginning of section 88 rods, the Road to be formed, as per general specification, with side drains; that on the south side to be 2 feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep, and that on the north side $1\frac{1}{2}$ feet wide at bottom, and on an average 1 foot deep; in this distance three small creeks cross the Road, over each of which a large culvert must be made, and to which the side drains must be cut.

The clearing begins at this creek, and with it higher and drier land, through the clearing for about 30 rods the Road will go as opened at present; this part will require to be levelled and formed with water tables, these to be 2 feet wide at bottom, and $1\frac{1}{2}$ feet deep, the excavation to form the crown of the Road; this formation comes to near the descent to the next table of land on which the Road is located, the descent being about 50 feet; at the end of the above formation the Road to turn a little to the north, and pass slopingly down the side of the hill, the Road sloping thus for a distance of about 50 rods; for this distance the Road to be formed by cutting into the hill on the south side, and forming on the north with the excavation; the hill side to be lower, as per general specification, and the water table to be carried along that side to the lower ground, which will be from beginning of section about 168 rods.

The remaining 152 rods to be formed as per general specification; the first 30 rods with the ditch on the south side 2 feet wide at bottom, and on an average 2 feet deep, and that on the north side 2 feet wide at bottom, and on an average $1\frac{1}{2}$ feet deep. The remaining 123 rods to be made with a ditch on south side $2\frac{1}{2}$ feet wide at bottom, and on an average 3 feet deep, and one on the north side 2 feet wide at bottom, and on an average $1\frac{1}{2}$ feet deep.

Four culverts will be required, and 60 rods of lateral drain; this drain to be 2 feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep.

The Contractor for this section must state the sum he will do the section for, exclusive of the lateral drain and two culverts, as it may be that these can be dispensed with; and also state the lowest price per rod he can cut the lateral drain for.

SPECIFICATION SECTION, No. 11.

Length of Section 1 Mile, or 320 Rods.

A few brush only, and four or five stumps to be cleared off this section, the whole being through clear land.

One culvert to be built near the beginning of the section, and 8 rods in length of the Road to be formed

by side ditches 2 feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep; the Road to be formed as per general specification.

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SPECIFICATION, SECTION No. 12.

Length of Section 1 Mile, or 320 Rods.

This section is only at beginning through clear land. The part of the section having woods upon it to be cleared to the full width of 66 feet, and the part requiring grubbing to be grubbed to the full width of 28 feet.

At 28 rods from beginning of section is a sandy hill; before coming to this hill the Road must turn gently to the south, and slope down the edge of the brow of the hill, which will be a distance of about 10 rods, the hill side to be cut down to form the Roadway; part of the earth of the hill to be used to fill the low ground at its base.

From base of hill for 30 rods there are sand knolls, and small sand hills; these sand knolls and hills to be levelled down to an even surface to form the Road.

At 63 rods from beginning of section, an old crossway begins, which is 21 rods in length; and at 112 rods from beginning of section a creek crosses the Road. The distance from beginning of crossway to the creek being 49 rods, to be formed as per general specification. The Roadway, in order to straighten it, must pass immediately north of the crossway logs, which, when grubbed and cleared out, must be laid with fascines. The drain on south side for these 49 rods to be $2\frac{1}{2}$ feet wide at bottom, and $2\frac{1}{2}$ feet deep, and to be cut into the creek, and the one on the north side to be 2 feet wide at bottom, and 2 feet deep, for 24 rods through the low ground, then the water to pass by a culvert to south side, and so to the creek; the remainder of the 49 rods of drain on the north side to be $1\frac{1}{2}$ feet wide at bottom, and on an average $1\frac{1}{2}$ feet deep, to be cut likewise to the creek. Sand and earth from hill near end of crossway to be drawn on the fascined part, if the excavation from the side drains should not be sufficient, which it will not be.

The crossway logs to be removed where they may interfere with the fascining or side drain.

From creek eastward, to foot of another sand hill, being 151 rods, the Road to be formed as per general specification; in that distance the various low wet places, amounting to 41 rods in length, must be fascined. The drain on south side to be 2 feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep, and that on north side $1\frac{1}{2}$ feet wide at bottom, and on an average $1\frac{1}{2}$ feet deep; the knolls on this part to be all levelled down, and all made even.

In passing up this sandy hill the road to wind a little to the north, and be formed by cutting into the hill, and forming the lower side with the excavation; a retaining wall and parapet to be laid as directed in the general specification.

The remainder of the section, 57 rods, to be formed as per general specification; the drain on each side to be $1\frac{1}{2}$ feet wide at bottom, and on an average $1\frac{1}{2}$ feet deep; the excavation to be laid on to form the crown of the Road.

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SPECIFICATION, SECTION No. 13.

Length of Section 1 Mile, or 320 Rods.

The parts of the section that has woods upon it to be chopped and cleared off to the full width of 66 feet, and to be grubbed to the full width of 28 feet.

From beginning of section to a large creek, a distance of 68 rods, the Road to be formed as per general specification, with side drains running into this creek; the drain on each side to be 2 feet wide at bottom, and $1\frac{1}{2}$ feet deep on an average.

Two small culverts and 20 rods of lateral drain will be required in this distance.

At the west side of this creek the Road must incline a little to the north in coming to the creek, and thence wind down the bank to the bridge; and on the east side from the bridge, the Road to slope up the side of the bank in a northerly direction to the top; in both cases the Road to be made by cutting into the side of the bank, and forming the lower side with the excavation; a retaining wall of sound pine trees to be laid, secured with tie-pieces into the hill, and a parapet or guard; the whole to be formed as in the general specification directed.

From this creek to the brow of the bank of the ravine at Beckwith's Creek, a distance of 50 rods, the Road to be formed as per general specification; the ditch on the south side to be 2 feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep, and to be cut into Beckwith's Creek; the ditch on the north side to be 2 feet wide at bottom, and on an average $1\frac{1}{2}$ feet deep, and near Beckwith's Creek to cross the Road by a large culvert into the south side ditch.

At Beckwith's Creek,—the ravine in which this creek runs being very deep, great care will be required in forming the Road down and up its sides. On the west side, the Road before coming to brow of the ravine to incline to the north, and on striking the brow to slope down the side of the ravine to the end of the bridge; the Road to be made 24 feet wide down the slope, and secured with a retaining wall and parapet; the whole made and completed as per general specification.

On the east side of the creek the Road to slope up the bank for a distance of 14 rods at least, and at the brow to be cut to the depth of 5 feet, the excavation to be carried down to form the Road; the slope of the Roadway at the excavated part to be at least 1 foot in 10, the whole completed as per general specification.

The remainder of the section will only require for the present to be chopped and cleared to its full width of 66 feet.

SPECIFICATION, SECTION No. 14.

Whole length of Section 1 Mile, or 320 Rods.

The part of this section which passes through woods to be chopped and cleared to the full width of 66 feet, and the Roadway grubbed to 28 feet wide, which will be about 14 feet wider than the present opened part, with which it must do for the coming winter.

SPECIFICATION, SECTION No. 15.

Whole length of Section 1 Mile, or 320 Rods.

The part of this section that has woods upon it to be cleared to the full width of 66 feet, and a few stumps removed to make it passable for this winter.

SPECIFICATION, SECTION No. 16.

Whole length of Section 1 Mile, or 320 Rods.

The part of this section that has woods on it to be cleared to the full width of 66 feet, and a few stumps removed to make it passable for this winter.

SPECIFICATION, SECTION No. 17.

Length of Section 1 Mile, or 320 Rods.

The part of this section that has woods upon it to be chopped and cleared out to the full width of 66 feet; opposite Mr. M'Call's clearing the Road to be cleared of stones, and a few stumps removed to make it passable for the coming winter.

SPECIFICATION, SECTION No. 18.

Whole length of Section 1 Mile, or 320 Rods.

The part of this section that has woods upon it to be chopped and cleared off to the full width of 66 feet, and a few pine stumps that interfere with the travelling this winter, to be removed; these stumps are in the woods immediately to east of Anderson's clearing, and between that and Fox's Creek.

SPECIFICATION, SECTION No. 19.

Whole length of Section 1 Mile, or 320 Rods.

The part of this section that has woods upon it to be cleared off to the full width of 66 feet. At the easterly or smaller branch of Fox's Creek, from the easterly end of the bridge over this creek, the Road must slope northerly up the side of the bank for 10 rods, and be cleared and grubbed of four or five pine trees that are on this slope; the Road to be then formed with retaining wall and parapet, as per general specification, for Road on hill sides.

SPECIFICATION, SECTION No. 20.

Length of Section 1 Mile, or 320 Rods.

At the beginning of this section the Road runs straight through the woods for a distance of 42 rods, to avoid the bend in the old location; this is to be chopped and cleared to the full width of 66 feet, and grubbed and cleared of stumps and stones 28 feet wide. The hollows to be filled up by the knolls being levelled into them, and the whole formed and levelled handsomely.

The remainder to the creek at the beginning of the New England settlement, to be cleared to the full width of 66 feet, and the stony knoll, 10 rods long, to be cleared of stone 24 feet wide, and levelled and formed with a proper slope.

The remainder of the section is opened and cleared, and will answer for the coming winter.

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SPECIFICATION, SECTION No. 21.

Whole length of Section 1 Mile, or 320 Rods.

From near the school-house at beginning of section to the end of the woods near Wm. Edwards', the Road to be chopped and cleared to the full width of 66 feet, and grubbed, cleared of old logs, and levelled to the width of 28 feet, which will be about 12 feet wider than the present opened part; this is all that will be required for the present winter.

SPECIFICATION, SECTION No. 22.

Whole length of Section 1 Mile, or 320 Rods.

This section will only require to be chopped and cleared out to the full width of 66 feet for the present winter.

SPECIFICATION, SECTION No. 23.

Whole length of Section 1 Mile, or 320 Rods.

The part of this section that has woods upon it to be chopped and cleared off to the full width of 66 feet, and grubbed to the width of 28 feet.

At the bridge over the creek in the deep ravine near Anderson's Farm, the Road to be taken 25 feet to the south, nearly opposite the bars across the Road, and sloped down the side of the hill to the end of the bridge; the whole distance 20 rods to be formed by cutting into the hill, laying retaining wall and parapet; and on the east side of the creek, the Road to slope up on the south side of the hill, to be cleared, grubbed, and formed, as per general specification, for a distance of 20 rods; the whole on both sides to be carefully and substantially formed, as directed in the general specification for formation of Road on hill side.

SPECIFICATION, SECTION No. 24.

Whole length of Section 1 Mile, or 320 Rods.

The part of this section that has woods upon it to be chopped and cleared to the full width of 66 feet, and the whole section grubbed to the width of 28 feet, being about 14 feet wider than the present opened part; when grubbed and levelled must answer for the coming winter.

SPECIFICATION, SECTION No. 25.

Whole length of Section 1 Mile, or 320 Rods.

The part of this section that has woods upon it to be chopped and cleared off to the full width of 66 feet, and to be grubbed to the full width of 28 feet.

At the beginning of the section at the east end of the creek bridge, the Road to pass up from the bridge and slope around on the south side 12 rods to the level ground above, and then continue straight for 30 rods, till it comes to the present opened part; the 12 rods up the side slope to be made with retaining wall and parapet, as per general specification for such formation. The 30 rods to be formed with side drains, having been first opened and grubbed well; the drain on the south side to be 2 feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep; that on the north side 2 feet at bottom, and on an average $1\frac{1}{2}$ feet deep.

One culvert in the above.

On the west side of the deep ravine near east end of section, at 8 rods back from the brow of the bank of the ravine, the Road to turn 40 feet to the south, and then slope down the gully that is at that spot, and so around to the end of the bridge; the sides of the gully to be cut into, and the Roadway formed for 16 rods in length, as per general specification for Road on side hill, and as laid out on the ground.

On the east side of the ravine the Road to slope up the edge of the bank towards the north, and through a gully that is there, and out at a spot where a post is planted and marked to shew the place, being 20 rods from end of bridge; the whole to be carefully grubbed and formed with retaining wall and parapet, and fully completed, as per general specification for the formation of such Road.

The remainder of the section, 16 rods in length, to be formed as per general specification with side drains; that on the south side $2\frac{1}{2}$ feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep, and that on the north side 2 feet wide at bottom, and on an average $1\frac{1}{2}$ feet deep, both to be cut into the ravine.

SPECIFICATION, SECTION No. 26.

Whole length of Section 1 Mile, or 320 Rods.

The part of this section that has woods upon it to be chopped and cleared off to the full width of 66 feet, and to be grubbed to the full width of 28 feet.

From beginning of section to large creek, a distance of 80 rods, the Road to be formed as per general specification with side ditches; that on the south side to be 2 feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep, and to be cut into the creek; that on the north side to be $1\frac{1}{2}$ feet wide at bottom, and on an average 2 feet deep, to be cut likewise into the creek. Two culverts in this distance.

The first brow of the ravine to be cut down and levelled into the hollow below; the next brow or knoll to be levelled to end of bridge, forming a regular slope down to the bridge all the way from brow of first knoll or edge of ravine.

On the east side of the bridge the Road from end of bridge to slope up the bank to the south for a distance of 20 rods, and to be formed with retaining wall and parapet, as per general specification for formation of Road on slopes.

From here to the higher land near Alexander Cunningham's clearing, a distance of 60 rods, the Road to be formed as per general specification with side drains; that on the south side 2 feet wide at bottom, and on an average $2\frac{1}{2}$ feet deep; that on the north side $1\frac{1}{2}$ feet wide at bottom, and on an average 2 feet deep, both to be carried into the creek last past.

Two culverts in the above distance, and 20 rods of lateral drain; drain to be $1\frac{1}{2}$ feet wide at bottom, and $2\frac{1}{2}$ feet deep.

From the beginning of the high land at Cunningham's, to the creek next east of his place, a distance of 84 rods, the Road being cleared off, grubbed and levelled, will for the present answer.

At this creek the brow of the bank on each side to be cut into 6 feet at the brow, and sloping in a uniform manner; the excavation to be thrown into the

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hollows from the banks to the ends of the bridge, so as to fill them up and make the ascent and descent more gentle.

A little to the east of this bridge the whole 66 feet in width to be chopped and cleared out on the south side, so as to straighten the Road. From here, which is 8 rods from brow of hill at bridge, and 56 rods to end of section, the Road is to be made as per general specification, with side drains to the end of the section; the drain on the south side to be 2½ feet wide at bottom, and on an average 3 feet deep; to cut off the springs and water coming from the south, two large culverts will be required, and 25 rods of lateral drain; drain to be 2 feet wide at bottom, and on an average 2½ feet deep; the drain on the north side of the Road to be 2 feet wide at bottom, and on an average 1½ feet deep; the whole excavation from both sides to be laid on to form the Roadway.

SPECIFICATION, SECTION No. 27.

Whole length of Section 1 Mile, or 320 Rods.

The part of the section that has woods upon it to be chopped and cleared off to the full width of 66 feet, and to be grubbed to the full width of 28 feet.

From beginning of section to bridge at M'Geough's house, the land is high, and through M'Geough's clearing; being grubbed, will require only to be levelled for the present.

At 14 rods from east end of bridge at M'Geough's the formation must now begin, from this to the west end of the bridge immediately east of the bridge at M'Geough's house, a distance of 20 rods; being well chopped, cleared off and grubbed, the Road is to be formed as per general specification, near the brow of the ravine, with a drain on south side 2½ feet wide at bottom, and on an average 3 feet deep, and the excavation used to form the Roadway; a large culvert or two to be constructed to carry the water into the ravine; the brow of the ravine next the end of the bridge on the west side to be cut down, and the Road formed on the north or left hand, sloping down to the bridge; the whole work to be done with care and attention, and according to the general specification. When the thick brush and timber with which the Road space is now overgrown, shall be cut away and cleared off, it may be found better and more convenient to form the Road by cutting into the bank on the higher side, and filling in on the lower, which will be the course taken if thought better.

From east end of bridge the Road to slope to the south up the side of the gully which is on that side, and to be 16 rods in length, until it comes in to the present opening; this length will require to be chopped, cleared and grubbed to the usual width, it being all woods; the remainder of the section must do for the present.

SPECIFICATION, SECTION No. 28.

Whole length of Section 1 Mile, or 320 Rods.

The part of this section that has woods upon it to be chopped and cleared to the full width of 66 feet, and the whole section to be grubbed to the width of 28 feet, and cleared of old logs.

Where the fence near the Frenchman's comes on the Road allowance, it must be removed to throw the Road open to the full width.

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The east half of the section being 160 rods long, to be formed as per general specification with side drains; the drain on the south side to be 2 feet wide at bottom, and on an average 2½ feet deep; the drain on the north side to be 2 feet wide at bottom, and on an average 1½ feet deep; at 17 rods from east end of section a gully crosses the Road, into which the drains both ways are to be cut. Three culverts will be required in this distance to carry the water from the north into the south side drain; this 160 rods must be well grubbed and carefully formed.

SPECIFICATION, SECTION No. 29.

Whole length of Section 1 Mile, or 320 Rods.

The part of this section that has woods upon it to be chopped and cleared off to the full width of 66 feet, and the whole section to be grubbed to the full width of 28 feet.

From the beginning of section to the small clearing made by Frenchman, a distance of 116 rods, the Road to be formed as per general specification with side drains; that on the south side to be 2 feet wide at bottom, and on an average 2½ feet deep; that on the north side to be 2 feet wide at bottom, and on an average 1½ feet deep, and both to be cut into the gully near the beginning of the section. Three small culverts to be made to carry the water to the south side. The remainder of the section will do by being opened and well grubbed.

SPECIFICATION, SECTION No. 30.

Whole length of Section 1 Mile, or 320 Rods.

The whole length of section to be chopped and cleared to the full width of 66 feet, and to be grubbed to the full width of 28 feet, which being levelled will answer for the present.

SPECIFICATION, SECTION No. 31.

Whole length of Section 1 Mile, or 320 Rods.

This section is opposite Jessup's Falls; the whole section will require to be chopped and cleared out to the full width of 66 feet, and to be grubbed to the full width of 28 feet.

When well cleared and grubbed, and the part grubbed well levelled, it will do for the coming winter by having two bridges built, one over the gully opposite Jessup's Falls, the other over John Baptiste's gully, and two culverts will be required at spots between these bridges. See specification for these bridges and the work near them.

SPECIFICATION, SECTION No. 32.

Whole length of Section 1 Mile, or 320 Rods.

The part of this section that has woods upon it to be chopped and cleared off to the full width of 66 feet, which will be the whole length of the section, and the whole length will require to be grubbed to the full width of 28 feet; the grubbed part being levelled it will answer for the present winter.

SPECIFICATION, SECTION No. 33.

Whole length of Section 1 Mile, or 320 Rods.

The part of this section that has woods upon it to be chopped and cleared to the full width of 66 feet, and nearly the length of the whole section to be grubbed to the width of 28 feet.

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The whole being well levelled will answer for the present winter. This section is opposite Colonel Kearns'.

SPECIFICATION, SECTION No. 34.

Whole length of Section 1 Mile, or 320 Rods.

The part of this section that has woods upon it to be chopped and cleared off to the full width of 66 feet; and all parts requiring grubbing to be grubbed to the full width of 28 feet, and levelled. One small bridge of 10 feet waterway to be built, which will make the section passable for the coming winter.

SPECIFICATION, SECTION No. 35.

Whole length of Section 1 Mile, or 320 Rods.

This section embraces Hattville, and there crossing the Nation River, at the point where the bridge is to cross, the Road takes a direct course to the sand hill, called Pocquette's Hill. The part of the section that has woods upon it, being a length of about 180 rods, is to be chopped and cleared off to the full width of 66 feet, and to be grubbed to the full width of 28 feet; this must answer for the coming winter.

SPECIFICATION, SECTION No. 36.

Whole length of Section 1 Mile, or 320 Rods.

The whole of this section is in woods, which are to be chopped and cleared to the full width of 66 feet, and to be grubbed and levelled to the full width of 28 feet.

SPECIFICATION, SECTION No. 37.

Whole length of Section 1 Mile, or 320 Rods.

This section ends at Mr. Thomas Lyttel's clearing, and is all in wood; the whole section is therefore to be chopped and cleared to the full width of 66 feet, and grubbed and levelled to the full width of 28 feet, which must answer for the present winter.

SPECIFICATION, SECTION No. 38.

Whole length of Section 1 Mile, or 320 Rods.

Part of this section is in Mr. Thomas Lyttel's clearing, and therefore the whole will not require chopping; the whole that is in woods to be chopped and cleared out to the full width of 66 feet; and the whole that has stumps or logs upon it, to be grubbed and cleared off to the full width of 28 feet, and to be well levelled, with which it must do for the coming winter.

SPECIFICATION, SECTION No. 39.

Whole length of Section 1 Mile, or 320 Rods.

The whole length of this section is in woods, and will all have to be chopped and cleared off to the full width of 66 feet, and grubbed and levelled to the full width of 28 feet.

SPECIFICATION, SECTION No. 40.

Whole length of Section 1 Mile, or 320 Rods.

The whole length of this section is in the woods, and will require to be chopped and cleared out to the full width of 66 feet, and grubbed, cleared out and levelled to the full width of 28 feet.

SPECIFICATION, SECTION No. 41.

Whole length of Section 1 Mile, or 320 Rods.

This section is partly in Holmes' clearing, and has only about 98 rods of wood land upon it. This 98 rods to be chopped and cleared off to the full width of 66 feet, and to be grubbed and levelled to the full width of 28 feet.

SPECIFICATION, SECTION No. 42.

Whole length of Section 1 Mile, or 320 Rods.

This section is in the large swamp, through which the Road is pretty well opened and made, and requires to be opened only at the beginning; then for a distance of 50 rods it must be chopped and cleared out to the full width of 66 feet, and grubbed, levelled and cleared of old logs to the width of 28 feet.

SPECIFICATION, SECTION No. 43.

Whole length of Section 1 Mile, or 320 Rods.

This whole section is in woods, but part of it being in the large swamp where the Road is opened wide enough for the present, only the east half will require to be chopped and cleared off to the full width of 66 feet; and this will require to be grubbed, cleared of old logs, and levelled to the full width of 28 feet.

SPECIFICATION, SECTION No. 44.

Whole length of Section 1 Mile, or 320 Rods.

The greater part of this section in woods, the east end in the clearing, where the turn to the Springs is, near Langlois' tavern.

The part in woods to be chopped to the full width of 66 feet, that is to the beginning of the clearing; that in the clearing to be widened only on one side. To the Dezeticon Bridge, to be grubbed to the full width of 28 feet.

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